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Technical Note 193

A BIBLIOGRAPHY OF FOREIGN DEVELOPMENTS IN MACHINE TRANSLATION AND INFORMATION PROCESSING

JOSEPHINE L. WALKOWICZ

U. S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS

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CONTENTS

	Page
INTRODUCTION	1
BIBLIOGRAPHY	3
SUBJECT INDEX	115
PERMUTED TITLES: KEYWORD-IN-CONTEXT	131
AUTHOR INDEX	163
INDEX TO CONFERENCES	171
INDEX TO ORGANIZATIONS	173
SOURCE DOCUMENTS	179

BIBLIOGRAPHY OF FOREIGN DEVELOPMENTS IN MACHINE TRANSLATION AND INFORMATION PROCESSING

Josephine L. Walkowicz

The bibliography presents 714 references to the literature translated in the Joint Publications Research Service series on foreign developments in machine translation and information processing. In addition to a conventional subject index to the literature cited, a permuted title index is provided as an experiment in the comparative efficiency of two methods of indexing. Also provided are an author index, an index to conferences and organizations cited, and a listing of the original source documents.

INTRODUCTION

This report is a revised edition of a previous, unpublished report from the Research Information Center and Advisory Service on Information Processing to the National Science Foundation, and is one of a series intended as contributions to the improvement of cooperation in the fields of information processing and machine translation.

The bibliography was prepared in order to provide author and subject indexes to the Joint Publications Research Service translation series on foreign developments in machine translation and information processing. The JPRS publications covered by this report are listed in the Bibliography section and are identified by an asterisk placed to the right of the JPRS number. Each asterisked or "mother" entry is followed immediately by its component items, listed in page-number order of appearance. This combination of JPRS number plus initial page number identifies each item in the series. A JPRS number without an asterisk and without a specific page number indicates an item which comprises the entire contents of that particular JPRS document. In the few instances where two items appear on one page, both items have the same number, both as to JPRS identification and as to page. Hopefully, the resultant ambiguity will be negligible. The 3-digit number preceding the JPRS designation is the Research Center's own collection accession number (from 101 to 814) and has no other significance.

Asterisked items are not included in the permuted title index provided with this bibliography as an experiment in the comparative efficiency of automatic and manual methods of indexing. The permuted title index was obtained as a by-product from paper tapes generated in the processing of data for accessioning and bibliographic control operations at the Center. The paper tapes were produced on a Friden Flexowriter and converted to punched cards by a Systematics C-750 Universal Code Tape-to-Card Converter. The punched cards were then converted to magnetic tape by an IBM-1401 for permutation by an IBM-7090 and for IBM 1401 printout.

Organizations and conferences cited are listed in separate indexes; original source documents translated in the series are listed in the last section of the bibliography. Efforts to resolve translation and transliteration ambiguities were not entirely successful; therefore some variant spellings may be encountered.

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The Photoduplication Service of the Library of Congress provides photocopies of all JPRS reports; prices are quoted upon request.

Several members of the Data Processing Systems Division cooperated in the preparation of this report. Miss Doretha I. Bates converted the bibliographic data to computer input, Mr. William L. Golemon guided the input through its numerous processing stages, Mr. William W. Youden wrote the computer programs used for the title permutations, and Mrs. Anna E. Upperman provided editorial and clerical assistance. Their contributions are gratefully acknowledged.

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Tarasova, G. A.
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Martem'yanov, Yu. S.
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Komandrovskiy, V. G.
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Segal, D. M.
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Chikoidze, G. B.
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Revzin, I. I.
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MASHINNYY PEREVOD I PRIKLADNAYA LINGVISTIKA (Machine Translation and Applied Linguistics), No. 5, 1961, pp. 90-92.

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Segal, D. M.
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Kuznetsov, A. V., Paducheva, Ye, V., and Yermolayeva, L. M.
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Yeliseyev, V. K., and Kovalevskiy, V. A.
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Saparina, Ye.
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Landa, L.
"Cybernetics in the School."
ZNANIYE-SILA (Knowledge is Power), No. 10, October 1962, pp. 33-35.

SUBJECT INDEX

Abstract journals in Soviet Union: 3433 p.1.
Abstracting, automatic: 893 p.90; 8938 p.15; 10361 p.55; 13057; 13196.
Abstracts, methods of preparation: 10597 p.21.
"Active" grammar (text synthesis): 241 p.13; 487 p.21.
Algol-60: 11700; 14164.
Applied linguistics. See Linguistics, applied.
Artificial intelligence: 893 p.44,87; 8938 p.15,50; 8950; 13198; 13694; 13725; 13790 p.1; 14624.
Association of word domains: 8938 p.27.
Associative memory: 8950; 10361 p.55.
Atomic energy as subject in machine translation: 2150 p.161.
Automata theory: 893 p.101; 10865; 11699; 11779; 11911; 12048; 13725; 14195; 14624.
Automatic control: 15787.
Automatic documentation systems: 8938 p.46,48.
Automatic programming: 241 p.67; 355; 621 p.1; 893 p.33,101; 1145 p.27; 6729; 8591; 11701; 13514 p.73.
Automatic syntax analysis: 241 p.40; 2150 p.99; 12441; 13134; 13444; 13543 p.103,301,355.
Automatic text analysis: 8938 p.33,39,48,50; 10361 p.2; 10367 p.4,8,13,38,62; 10380 p.2,6.
BESM computer: 68 p.1; 319 p.1; 379; 487 p.1; 3225 p.10; 13543 p.355.
Bibliographic data: 3433 p.9; 6633 p.7; 12957.
Bibliographies
  on machine translation: 3502 p.4; 3599 p.55; 13135; 13439.
  on mathematical linguistics: 3502 p.23.
Biology
  machine language for: 11483 p.157.
Cataloging
  standardization of: 12957.
Chemical data coding: 893 p.84; 8372 p.1,11,36; 8479 p.1,9,23,55,69,77. 8950; 8991; 11483 p.42,63,126,134,171; 13173 p.99.
Chemical literature processing and searching: 331; 893 p.84,86; 991 p.1; 3613; 3758 p.66; 8372 p.1,11,36; 8479 p.1,23,55,69,77; 8991; 11483 p.42,63,171.
Chemistry as subject in machine translation: 13173 p.281.
Chemistry titles
  information language for: 13173 p.99.

Chinese computer: 6094 p.28.
Chinese Peoples' Republic
first machine translation in: 6094 p.28.
"Choice of index" program (for resolution of homonymy): 646 p.19.
Classification systems: 6633 p.7; 8372 p.16; 10597 p.21; 13172; 13761 p.102.
Code conversion: 241 p.6.
punched tape to cards: 3598 p.11,23.
Coding: 241 p.56,62; 893 p.27,91,96,98; 2150 p.41; 3598 p.1; 3758 p.23; 3796 p.1; 10808 p.1,7; 11088 p.6; 13056; 13057; 13321. See also Chemical data coding.
Coding, automatic: 6732 p.23.
Communications engineering: 6543 p.2.
Comparative-historical linguistics. See Linguistics, comparative-historical.
Computer applications: 355; 6997 p.1; 8950; 10508 p.1,6,10; 11699; 13135; 13514 p.1,45; 14318 p.1,15; 15787.
Computer components: 8950; 12133.
Computer design: 8950; 11985.
for machine translation: 893 p.96; 893 p.96; 10509.
Computers
BESM: 68 p.1; 319 p.1; 379; 487 p.1; 3225 p.10; 13543 p.355.
Chinese: 6094 p.28.
IBM-650: 8938 p.39; 10367 p.13.
Kiev: 13056; 15787; 16343.
LEM-I: 705; 8372 p.1; 11483 p.171.
LEM-II: 893 p.101.
LEM-1/24: 8479 p.77.
M-20: 10509
SAPO: 6239 p.16.
SEAC: 3599 p.50.
STRELA: 68 p.68; 241 p.80; 319 p.1; 379; 1145 p.18; 3502 p.16; 10721 p.31; 12046; 13195; 13514 p.45,107.
universal computer: 12050.
Ural: 13761 p.19.
Yamato: 3758 p.61; 3948.
Concordances: 6239 p.6; 13135.
Decree No. 1228, Ministry of Higher Education, re development of scientific research in machine translation: 1006.
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Dictionary
in machine translation. See entries under Machine translation.
in processing of speech: 13198.
Dictionary search
in machine translation: 487 p.28; 13543 p.246.
Documentation: 8372 p.16; 11483 p.17; 12957.
Documentation systems: 8938 p.4,6,29,43,45.
automatic: 8938 p.46,48.
Electrical engineering literature
analysis of user requests: 8372 p.6.
Electronics literature
automatic abstracting of: 13057.
Essays on Machine Translation, (Cambridge Language Research Unit), review: 13761 p.102.
ETNA (Experiment of an Automatic Nuclear Theoretician): 8938 p.50.
Euratom Information Center: 6240 p.14.
Experimental machine translations: 68 p.1,68; 241 p.80; 319 p.1; 379; 487 p.1; 621 p.1; 925 p.36; 1145 p.18; 3502 p.16; 6094 p.28; 8026 p.27,51; 10721 p.31; 13195; 13761 p.19.
"Filter" system for chemical literature searching: 8991.
Formula analysis in machine translation: 241 p.68; 13173 p.203.
Geological literature
word frequency, English texts: 241 p.39.
Glossaries. See entries under Machine translation.
Human learning: 17184 p.1,29.
IBM-650 computer: 8938 p.39; 10367 p.13.
Index of chemical compounds and formulas: 3613; 8372 p.11; 8479 p.9.
automatic compilation of: 8479 p.9.
methods of improving: 3613.
Index production
evaluation, cost and methods: 13253.
Indexing: 8372 p.16; 8938 p.33; 10597 p.21; 11483 p.17.
Indexing, automatic: 10361 p.55.
Information centers: 3433 p.1,9; 6633 p.7.
Euratom: 6240 p.14.
in Soviet Union: 6680 p.2.
Information machines: 68 p.68; 331; 662 p.1,7; 1145 p.1; 2150 p.6; 11483 p.2,150; 13055. See also Information storage and retrieval.

Information processing: 893 p.36,87,91,101; 991 p.18; 3225 p.1; 3570; 3598 p.11,23,31; 3758 p.23; 3796 p.1; 6507 p.1; 6997 p.1; 8938 p.2,18,27,37,45; 10361 p.55; 10508 p.6,10; 10576 p.12; 13056; 13057; 13173 p.325; 13543 p.503; 14318 p.1,15; 15839 p.1. See also Automatic text analysis.
Information processing in humans. See Human learning.
Information processing languages: 10361 p.2,55; 10380 p.2,6.
artificial languages: 241 p.5,40; 893 p.23; 991 p.1; 8026 p.56; 13761 p.116.
information language: 68 p.68; 893 p.91; 3758 p.66; 8938 p.27; 11483 p.150; 13173 p.36.
for chemistry titles: 13173 p.99.
for mathematics literature: 893 p.83; 13254.
for mechanics literature: 13055.
grammatical information in: 893 p.69.
vocabulary in: 13056.
information logic language
for geometry texts: 893 p.87,90; 10597 p.1; 13173 p.52; 13761 p.1; 13790 p.5.
translation from and into standardized Russian: 13173 p.52; 13790 p.5.
intermediary language: See entries under Machine translation.
machine language: 11483 p.2; 13172.
for biology: 11483 p.157.
for geometry: 11483 p.154.
for organic chemistry: 11483 p.42.
requirements for: 1145 p.1; 2150 p.6; 10361 p.2.
metalanguages in machine translation: 241 p.1; 2150 p.26,99.
semantic language: 13254.
standardized language (Russian)
translation from and into information logic language: 13173 p.52; 13790 p.5.
symbolic machine translation language: 893 p.34,35.
Information storage and retrieval: 1145 p.1; 8372 p.16; 10361 p.55; 10367 p.62; 10597 p.21; 11483 p.17,150; 15429.
mathematical logic theory in: 11483 p.2,17.
search evaluation: 13055.
search strategy: 8372 p.16. See also information machines.
Information theory: 893 p.36,102; 3300 p.11; 3502 p.40; 3598 p.1; 3796 p.12; 6543 p.7; 8938 p.7.
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Kiev computer: 13056; 15787; 16343.
Language and linguistic analysis
"active" and "passive" grammar: 241 p.13; 487 p.21.
configuration analysis: 10576 p.30,42; 13543 p.165,355.
contextual analysis: 241 p.27; 992 p.1; 3599 p.29; 6239 p.10; 10777 p.38; 13543 p.301; 13761 p.57.
contextual parameter method for resolution of polysemia: 6239 p.10.
grammatical category: 241 p.21; 893 p.21.
grammatical concepts: 241 p.31; 646 p.1; 893 p.60.
grammatical structure: 6240 p.1.
homonymy, analysis and resolution of: 241 p.69; 646 p.19,28; 3629 p.11; 6494 p.14; 6588 p.1,38; 8994; 10777 p.38; 13173 p.213,305; 13514 p.129,313; 13543 p.217,267,301.
language congruence: 6240 p.8.
language correspondence: 13543 p.57.
language levels: 241 p.7; 13173 p.36.
language models: 241 p.11; 319 p.25; 893 p.8,12,23,28,42,43; 3502 p.16; 3758 p.66; 10777 p.11; 13197; 13543 p.481.
language projectivity: 10367 p.8,13.
language sign: 893 p.99; 6347 p.1,16,26.
language structure: 241 p.43; 487 p.21; 13761 p.90.
language teaching
of blind deaf mutes: 241 p.35.
equipment in: 3597 p.8.
language typology: 893 p.8,68; 6732 p.42.
language valence: 893 p.73; 10576 p.30; 10814 p.32.
languages in
ancient language texts: 241 p.37,44; 3597 p.10. See also Mayan hieroglyphics.
Balkan romance languages
description: 3597 p.10.
Chinese
graphic analysis for pattern recognition: 13543 p.503.
speech processing: 13198.
English
homonymy: 10777 p.38; 13543 p.267.
morphological analysis: 13543 p.267.
prepositional phrases: 13543 p.289.
Georgian
gap analysis: 893 p.32.
German
complex sentences: 8966.
gap analysis: 893 p.32.

Language and linguistic analysis (continued)
languages in (continued)
Mayan hieroglyphics
machine processing of: 6997 p.1; 10508 p.1,6,10; 14318 p.1,15.
Mayan-Russian dictionary: 10508 p.6,10; 14318 p.15
Russian-Mayan dictionary: 10508 p.6.
Russian: 6505 p.1; 6588 p.14; 8026 p.57; 13173 p.151.
automatic analysis: 13444; 13514 p.330; 13543 p.103,301.
complex sentences: 241 p.75.
gap analysis: 893 p.32.
graphemes, classification of for pattern recognition: 13256.
homonymy: 8994; 13543 p.301.
as information language: 893 p.83,90; 13761 p.1; 13790 p.5.
prepositional phrases: 241 p.80; 893 p.75.
sentence configuration: 10576 p.30.
standardized Russian: 893 p.75; 10814 p.1.
valence: 10576 p.30.
word correspondence: 13444.
word subclasses: 6505 p.14.
Vietnamese
sentence classification: 3758 p.23; 3796 p.1.
syllable coding: 10808 p.1.
verb syntagmas, structure: 6543 p.120.
lexicology: 241 p.62; 893 p.68; 8132 p.9.
meaning and content: 241 p.19; 6678.
morphology and morphological analysis: 2150 p.99; 6505 p.14; 10576 p.1,50; 10814 p.1; 13514 p.129,303,313; 13543 p.267,338.
use of computers in: 13514 p.330.
phonetics: 3597 p.10; 6543 p.21,67,92,104; 6588 p.65; 8929 p.6.
phonology: 1132; 3597 p.10; 6094 p.13; 13543 p.481.
phrase structure grammar: 13197.
polysemia: 6239 p.10; 6588 p.38.
semantics and semantic analysis: 68 p.58; 893 p.24; 991 p.1; 6588 p.65; 8026 p.57; 8132 p.9; 11483 p.150; 13543 p.19.
logical semantics: 241 p.40; 991 p.1.
semantic coding: 13056; 13057; 13321.
semantic factors: 13543 p.19.
semantic keys: 68 p.58.
sentence classification: 893 p.27; 3758 p.23; 3796 p.1.
sentence models: 893 p.25,27,28.
sentence structure: 8026 p.53.

Language and linguistic analysis (continued)
sentence theory: 241 p.31.
speech analysis: 241 p.17; 893 p.97; 1029; 6094 p.13; 6543 p.21,36; 8929 p.6; 13543 p.481; 15754.
Albanian: 241 p.17.
Armenian: 241 p.17; 6094 p.13.
Bulgarian: 241 p.17
Czech: 241 p.17.
English: 241 p.17.
French: 241 p.17.
Georgian: 241 p.17.
German: 241 p.17.
Lettish: 241 p.17.
Russian: 241 p.17; 6543 p.21,36.
speech coding: 8929 p.6.
speech compression: 6445 p.1.
speech data processing: 3758 p.66; 6445 p.15; 13198.
speech discrimination: 6445 p.15.
speech recognition: 8929 p.6; 13790 p.24; 15754.
speech recording for oral translation: 241 p.34.
speech, statistical analysis of: 6445 p.1,7; 6543 p.2,7,21,31,36,54,57,77,92,104.
French: 6445 p.1; 6543 p.92,104.
Russian: 6445 p.1,7; 6543 p.21,31,36,54.
Spanish: 6445 p.1; 6543 p.92,104.
Vietnamese: 6445 p.1.
speech synthesis: 893 p.97; 3225 p.10; 6997 p.6; 17184 p.1.
statistical analysis of language: 241 p.30,42; 487 p.21; 3758 p.31; 3796 p.12; 6494 p.1; 6543 p.43,86,120; 6732 p.32,46; 8026 p.40; 8132 p.1; 8929 p.4,5; 8938 p.10,23; 10721 p.14; 13173 p.339; 15839 p.20.
English: 241 p.39; 3796 p.12: 8026 p.40.
French: 3599 p.16; 3796 p.12.
Georgian: 8929 p.4,5.
German: 3796 p.12.
Russian: 241 p.20,30; 3598 p.31; 3599 p.16; 3758 p.31; 3796 p.12; 6543 p.86; 13173 p.339.
Spanish: 241 p.42; 3599 p.16; 3796 p.12; 6494 p.1.
Vietnamese: 6543 p.120.
word frequency: 241 p.20,39; 893 p.20,99; 3599 p.16; 6543 p.86.
statistical analysis of speech. See speech, statistical analysis of, above.

Language and linguistic analysis (continued)
syntagmatic analysis: 241 p.58; 893 p.49; 6543 p.120; 10429; 13173 p.120; 13790 p.49.
syntax and syntactical analysis: 68 p.48; 241 p.26; 925 p.1,83; 6505 p.4; 6588 p.14; 10576 p.42; 13173 p.151,325; 13321; 13543 p.19,315.
automatic analysis: 241 p.40; 2150 p.99; 12441; 13134; 13444; 13543 p.103,301,355.
statistical analysis of syntax patterns: 3599 p.50.
transform analysis: 3796 p.32; 6094 p.1; 6588 p.14; 8938 p.27; 10814 p.1.
translation key: 3599 p.43.
translation theory: 241 p.15,23,33; 487 p.21; 893 p.1; 1006. See also Information processing languages.
Large capacity memories: 662 p.1; 1145 p.1.
LEM-1 computer: 705; 8372 p.1; 11483 p.171.
LEM-II computer: 893 p.101.
LEM-1/24 computer: 8479 p.77.
Lexicology. See entries under Language and linguistic analysis.
Linguistics: 68 p.36; 241 p.13,19; 893 p.99,102; 2150 p.2; 3597 p.2; 3758 p.76; 3796 p.12; 6347 p.1,16,26; 6678; 6732 p.11; 6938 p.1; 8938 p.11,15,27.
applied: 319 p.21; 487 p.25; 991 p.18; 3474; 3599 p.1; 6239 p.1; 6507 p.1; 8026 p.56; 8132 p.1; 11412; 13173 p.1; 13761 p.118.
comparative-historical: 893 p.3; 6543 p.57; 10721 p.14.
mathematical: 241 p.6,25; 487 p.32; 621 p.10; 893 p.1; 3502 p.23; 3758 p.66; 6445 p.18; 8026 p.53; 8132 p.1; 8938 p.18; 13790 p.12.
bibliography on: 3502 p.23.
research methods and objectives: 319 p.21; 487 p.27; 893 p.91; 3597 p.3; 3629 p.1; 6236 p.36; 6445 p.18; 6732 p.1,42; 10508 p.1.
set theory in: 241 p.31; 646 p.1; 893 p.1,12,24; 3758 p.76; 6543 p.43; 6938 p.1; 8938 p.18.
structural: 241 p.19; 893 p.37; 992 p.10; 1132; 6152 p.7; 6236 p.36; 6445 p.18; 6506; 6543 p.43; 6732 p.42; 8026 p.57; 8132 p.1,9; 14252.
theory of: 241 p.37; 487 p.25; 3597 p.10; 6152 p.7; 6236 p.1,12,29; 13173 p.1.
theory of probability in: 241 p.22; 893 p.9,25,27; 3300 p.1; 6445 p.1,7; 6543 p.54,57; 10814 p.32; 13761 p.65.
Logic, education and scientific research in: 863.
Logical models, in linguistics: 3731 p.9.
Logical semantics: 241 p.40; 991 p.1.

M-20 computer: 10509.
Machine Literature Searching and Translation, by Allen Kent (New York, Interscience, 1960), review: 6094 p.26.
Machine translation: 68 p.30,36; 241 p.44; 319 p.1; 379; 487 p.1,21,33; 729; 893 p.34,35,42,52,81,96; 991 p.18; 1131; 1145 p.44; 2150 p.2,26,41; 3225 p.10; 3474; 3502 p.1,4,16; 3599 p.1,5,55; 3629 p.18; 3731 p.1; 3948; 6239 p.1; 6240 p.1,14; 6732 p.46; 8026 p.1; 10509; 10721 p.1,31; 13135; 13439; 13478; 13543 p.19.
computer design for: 893 p.96; 893 p.96; 10509.
dictionary arrangement and construction: 487 p.28; 893 p.81; 925 p.1,36; 992 p.1; 2150 p.41; 6492 p.1,14; 13543 p.246,416.
dictionary search: 487 p.28; 13543 p.246.
dictionary of stems: 68 p.9; 241 p.42; 646 p.28; 6494 p.1; 13543 p.338.
experimental translations: 68 p.1,68; 241 p.80; 319 p.1; 379; 487 p.1; 621 p.1; 925 p.36; 1145 p.18; 3502 p.16; 6094 p.28; 8026 p.27,51; 10721 p.31; 13195; 13761 p.19.
formula analysis in: 241 p.68; 13173 p.203.
glossaries
Chinese: 13543 p.209.
English-Russian: 241 p.51.
German-Russian polysemants: 241 p.50; 925 p.72.
Vietnamese: 241 p.47.
glossaries, arrangement and construction: 241 p.36,47,50,51,56; 925 p.36,72; 13543 p.209.
homonymy in: 241 p.69; 646 p.19,28; 3629 p.11; 6494 p.14; 6588 p.1,38; 8994; 13173 p.213,305; 13514 p.129,313; 13543 p.217,301.
intermediary language in: 241 p.5,6; 487 p.21; 893 p.81; 1006; 3502 p.16; 3758 p.66; 13135; 13173 p.281; 13543 p.57; 13790 p.12.
concept of grammar in: 893 p.60,69,71; 8026 p.15.
construction of: 662 p.11; 893 p.52,68; 8026 p.15.
dictionary design: 893 p.66.
input-output language conversion: 893 p.63,76,76,78,78,82.
models: 241 p.11; 319 p.25; 893 p.23; 3502 p.16; 10777 p.11.
number in nouns: 893 p.73.
requirements: 68 p.58; 893 p.60; 10777 p.11.
tense in verbs: 893 p.73.
valence in: 893 p.73.
vocabulary construction: 13543 p.3.
voice in: 893 p.74; 10808 p.10.

Machine translation (continued)
languages in
Arabic: 621 p.10.
base separation program: 2150 p.79.
transliteration into Russian: 2150 p.79.
Arabic-Russian: 241 p.79; 487 p.21; 1006; 2150 p.79.
Armenian
conversion into intermediary language: 893 p.78.
suffix processing: 3599 p.39.
Armenian-Russian: 662 p.6.
Burmese: 621 p.10.
Burmese-Russian: 241 p.78; 487 p.21; 1006; 2150 p.91.
Chinese: 241 p.1,60; 319 p.10; 621 p.10; 893 p.68; 925 p.83; 1133.
auxiliary words: 13543 p.436.
configuration analysis: 13543 p.165.
dictionary, structure: 925 p.1.
glossary, structure: 13543 p.209.
homonymy: 3629 p.11; 13543 p.217.
as intermediary language: 241 p.11.
numerals: 10777 p.1; 13761 p.19.
Chinese-Russian: 241 p.60; 319 p.10; 379; 487 p.1,21,31; 925 p.83; 1006; 1133; 13543 p.165,217,423,436.
Czech: 621 p.10.
English: 241 p.1,67,69; 621 p.10; 893 p.68,96; 925 p.1; 1006; 3629 p.11; 8026 p.57; 13173 p.281.
clause analysis: 2150 p.166.
conversion into intermediary language: 893 p.76.
homonymy: 3629 p.11; 13173 p.305.
as intermediary language: 241 p.11; 3502 p.16.
prepositional phrases: 13173 p.314.
punctuation marks: 925 p.36.
sentence synthesis: 13790 p.49.
English-Chinese: 1131.
English-Czech: 6239 p.16.
English-French: 6239 p.19.
English-Georgian: 6094 p.29.
English-Japanese: 3758 p.61; 3948.
English-Russian: 68 p.1,48; 241 p.8,50,51,67,71; 319 p.1; 355; 379; 487 p.1,21; 646 p.19; 925 p.36; 1006; 3225 p.10; 3502 p.16; 6492 p.41; 13195.

Machine translation (continued)
languages in (continued)
French: 68 p.9; 621 p.10; 1131.
as intermediary language: 241 p.11; 319 p.25; 3502 p.16.
French-English: 487 p.21.
French-Georgian: 6094 p.29.
French-Russian: 68 p.9,68; 241 p.8,45,50,68,80; 319 p.1; 355; 379; 487 p.21; 621 p.1; 1006; 1145 p.18,27; 3502 p.16; 3599 p.5; 6492 p.1; 6494 p.14; 8026 p.27; 10509; 10721 p.31; 12046.
Georgian
prefix processing: 3599 p.33.
sentence analysis: 13761 p.74.
Georgian-Russian: 1006.
German: 241 p.1; 621 p.10; 893 p.68; 1131; 8026 p.57; 13543 p.231.
abridgement for machine input: 10808 p.7.
case analysis: 893 p.21.
compound nouns: 241 p.76; 925 p.64.
conversion into intermediary language: 893 p.78.
coordination, types: 10576 p.22.
dictionary, polysemant: 487 p.21.
dictionary, structure: 925 p.1; 13543 p.246.
homonymy: 3629 p.11.
numerals: 10777 p.1; 13761 p.19.
sentence models: 893 p.28.
translation into semantic language: 13254.
German-Georgian: 6094 p.29.
German-Japanese: 6968.
German-Russian: 241 p.50,76; 379; 925 p.64,72; 1006.
Guarani: 621 p.10.
Hindustani: 621 p.10.
transliteration into Russian: 2150 p.149.
Hindustani-Russian: 241 p.66; 487 p.21; 1006; 2150 p.149.
Hungarian
as intermediary language: 241 p.11; 319 p.25; 3502 p.16.
Hungarian-Russian: 646 p.28; 893 p.33; 1006; 3502 p.16.
Indonesian: 621 p.10.
list of false bases: 2150 p.61.
root separation: 2150 p.61.
Indonesian-Russian: 241 p.46; 487 p.21; 1006; 2150 p.61.

Machine translation (continued)
languages in (continued)
Japanese: 241 p.1; 621 p.10; 893 p.68.
dictionary, structure: 925 p.1.
homonymy: 3629 p.11.
sentence analysis: 241 p.63; 925 p.93.
word separation: 925 p.93; 1130.
Japanese-Russian: 241 p.48,63; 379; 487 p.1,21; 925 p.93; 1006; 1130; 2150 p.161; 13543 p.413.
Latin-English: 13761 p.102.
Norwegian: 621 p.10.
Norwegian-Russian: 241 p.54; 487 p.21; 1006; 2150 p.68.
Rumanian
syntactical indicators: 13543 p.315.
Russian: 241 p.1; 621 p.10; 893 p.68; 1006; 6505 p.1; 11305; 13761 p.28.
aspect in verbs: 3599 p.29
case analysis: 893 p.21; 6588 p.1; 13173 p.213.
clause synthesis: 241 p.59.
conjunction "I": 3758 p.52.
dictionary, structure: 925 p.1.
formula analysis: 241 p.68; 13173 p.203.
homonymy: 3629 p.11; 6588 p.1; 13514 p.129,313.
as intermediary language: 241 p.11; 319 p.25; 3502 p.16.
morphological analysis: 13154 p.129,303,313.
automatic: 2150 p.99.
numerals: 10777 p.1; 13761 p.19.
passive constructions: 13790 p.54.
prepositional groups: 13173 p.155.
pronoun correlation: 13173 p.192.
punctuation marks: 241 p.73; 925 p.25.
sentence analysis: 387.
sentence models: 893 p.27.
sentence synthesis: 13173 p.228; 13543 p.376,387; 13761 p.84.
superfluousness
of gender in verbs: 241 p.56.
of inflection in adjectives: 241 p.70.
syntagmatic analysis: 241 p.58; 10429; 13173 p.120.
word order: 13543 p.387; 13761 p.84.
word synthesis: 241 p.58; 12047; 13173 p.231,261.
Russian-Armenian: 662 p.6.
Russian-Chinese: 487 p.21; 1131; 3356; 6094 p.28; 8026 p.51.

Machine translation (continued)
languages in (continued)
Russian-Croatian: 6239 p.16.
Russian-English: 241 p.64; 379; 487 p.21; 1006; 11305.
Russian-French: 6239 p.16.
Russian-Georgian: 1006; 6094 p.29; 8313; 8929 p.1.
Serbo-Croatian: 6732 p.48.
Spanish: 621 p.10.
stem dictionary: 241 p.42; 6494 p.1.
Spanish-Russian: 1006.
Swedish
automatic morphological analysis: 13543 p.338.
stem dictionary: 13543 p.338.
Tartar
configuration analysis: 13543 p.355.
Tartar-Russian
table of correspondences: 13543 p.366.
Turkish: 621 p.10.
Turkish-Russian: 1006.
Vietnamese: 621 p.10; 2150 p.154.
Vietnamese-Russian: 241 p.47; 487 p.21; 1006.
metalanguage in: 241 p.1.
alphabet for: 2150 p.26.
notation for: 2150 p.99.
of numerals: 10777 p.1; 13761 p.19.
of poetry: 241 p.24; 13543 p.448.
programming for: 241 p.50,56; 379; 621 p.1; 893 p.33; 1145 p.27; 3599 p.5; 3758 p.1; 6492 p.41; 6494 p.14; 6968; 10777 p.1; 12046; 13194; 13514 p.330; 13543 p.86.
proper nouns in: 241 p.77.
punctuation marks in: 241 p.73; 925 p.25,36.
relationship to automatic documentation: 8938 p.46.
research in: 1006; 3629 p.17.
semantic language: 13254.
significance of to linguistics: 241 p.13.
survey articles: 68 p.1,30; 662 p.11; 1131; 3502 p.4; 6239 p.16; 6732 p.48; 8026 p.1; 11305; 13135.
symbolic machine translation language: 893 p.34,35.
translating machines: 487 p.1; 893 p.44; 3532; 3758 p.61; 3797; 3948; 6968; 12049; 13194.
word-for-word translation: 487 p.33.

Mathematical linguistics. See Linguistics, mathematical.
Mathematical logic
theory in information storage and retrieval: 11483 p.2,17.
Mathematics
information language for: 893 p.83,87,90; 10597 p.1; 11483 p.154; 13173 p.52; 13254; 13761 p.1; 13790 p.5.
Mathematics as subject in mechanical translation: 68 p.9,68; 241 p.42,58,64,68,70; 621 p.1; 893 p.83,90; 925 p.1,36,64,93; 1133; 1145 p.18; 2150 p.99; 3599 p.39; 6492 p.1,41; 6494 p.1; 8313; 13173 p.192,203,213,339; 13254; 13543 p.209,366,413.
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Oral translation: 241 p.34.
Organic chemistry, machine language for: 11483 p.42.
"Passive" grammar (text analysis): 241 p.13; 487 p.21.
Patent searching: 15429.
Pattern recognition: 3570; 6135 p.1,21,49; 6507 p.11; 6633 p.1; 13256; 13543 p.503,514; 13694; 13725; 14682; 15787; 16343. See also speech recognition under Language and linguistic analysis.
Phonetics. See entries under Language and linguistic analysis.
Phonology. See entries under Language and linguistic analysis.
Photocomposition: 16292.
Phrase structure grammars: 13197.
Plagiarism: 8865.
Poetry translation (by machine): 241 p.24; 13543 p.448.
Polysemia: 6239 p.10; 6588 p.38.
Program of conflicts, for automatic text analysis: 8938 p.39; 10367 p.13,62.
Programming: 6868; 8591; 11088 p.1; 11844 p.1,15; 11985; 12441; 13514 p.1,45,73,107.
for machine translation: 241 p.50,56; 379; 621 p.1; 893 p.33; 1145 p.27; 3599 p.5; 3758 p.1; 6492 p.41; 6494 p.14; 6968; 10777 p.1; 12046; 13194; 13514 p.330; 13543 p.86. See also Automatic programming and Symbolic programming.

Proper nouns in machine translation: 241 p.77.
Punched card techniques: 3598 p.11,23,31; 8372 p.16; 8938 p.43; 13253; 14468.
Punctuation marks in machine translation: 241 p.73; 925 p.25,36.
Radio engineering as subject in mechanical translation: 241 p.67.
Radioelectronics literature, indexing and classification of: 6633 p.7.
Reading devices (for blind): 241 p.72.
Reading machines: 3758 p.66; 6135 p.49; 13256.
design principles: 241 p.45; 2150 p.171.
seminar on: 6507 p.11. See also Pattern recognition.
Review articles: 3599 p.43; 6094 p.26; 6152 p.1,7,14; 6239 p.18; 6938 p.11; 8026 p.53,56; 12049; 13761 p.90,102.
Russian-Mayan dictionary: 10508 p.6.
SAPO computer: 6239 p.16.
Scanning devices: 13543 p.514.
Scientific information: 3433 p.9.
organization and use of in Soviet Union: 6680 p.28,34.
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discussion: 6152 p.14.
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Sorting: 15839 p.1.
Speech. See entries under Language and linguistic analysis.
Stem dictionary. See dictionary of stems under Machine translation.
STRELA computer: 68 p.68; 241 p.80; 319 p.1; 379; 1145 p.18; 3502 p.16; 10721 p.31; 12046; 13195; 13514 p.45,107.
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Subjects in machine translation
atomic energy: 2150 p.161.
chemistry: 13173 p.281.
mathematics: 68 p.9,68; 241 p.42,58,64,68,70; 621 p.1; 893 p.83,90; 925 p.1,36,64,93; 1133; 1145 p.18; 2150 p.99; 3599 p.39; 6492 p.1,41; 6494 p.1; 8313; 13173 p.192,203,213,339; 13254; 13543 p.209,366,413.
radio engineering: 241 p.67.

Symbolic programming: 3758 p.66; 13514 p.73.
Syntagmatic analysis. See entries under Language and linguistic analysis.
Syntax. See entries under Language and linguistic analysis. See also Automatic syntax analysis.
Tape-to-card converter: 3598 p.11,23.
Teaching machines: 17184 p.29.
Theory of probability
applications of: 10679.
in linguistics: 241 p.22; 893 p.9,25,27; 3300 p.1; 6445 p.1,7; 6543 p.54,57; 10814 p.32; 13761 p.65.
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Translation theory: 241 p.15,23,33; 487 p.21; 893 p.1; 1006.
Translations, sources of (Russian): 6240 p.14.
Transliteration:
Arabic-Russian: 2150 p.79.
Cyrillic-Latin: 6588 p.45.
Hindustani-Russian: 2150 p.149.
L'Unité documentation system: 8938 p.43.
Universal computer: 12050.
Universal science code: 13172.
Ural computer: 13761 p.19.
User requests, classification and analysis of: 8372 p.6.
Word frequency: 241 p.20,39; 893 p.20,99; 3599 p.16; 6543 p.86.
Word-domain association: 8938 p.27.
Word-for-word translation: 487 p.33.
Yamato: 3758 p.61; 3948.
Yugoslavia
machine translation in: 6732 p.46,48.

747 RO8LEM OF DISTINGUISHING FORMS ENDING IN -O (-E) WITH AN ADJECTIVAL STEM IN THE RUSSIAN 747 JPRS-13543 P. 3D1
747 THE PRO8LEM OF DISTINGUISHING FORMS ENDING IN -O (-E) WITH AN ADJECTIVAL STEM IN THE RUS 747 JPRS-13543 P. 3D1
545 HISTORICAL NOTES A8OUT THE SYSTEMS OF DOCUMENTATION. 545 JPRS-8938 P. 4
614 AN ALGORITHM TO A8RIDGE GERMAN FOR INPUT INTO A MACHINE. 614 JPRS-10808 P. 7
679 SOME PRO8LEMS OF MACHINE TRANSLATION A8ROAD. 679 JPRS-13135
625 IAN LANGUAGE IN MACHINE TRANSLATION WORK DONE A8ROAD. ON THE RUSS 625 JPRS-113D5
640 PUTER PRESENTED TO IT. THE SYNTHESIS OF AN A8STRACT AUTOMATON 8Y AN EVENT ON AN ELECTRONIC COM 640 JPRS-11699
712 COMPILE 1SSUE-8Y-ISSUE AND ANNUAL INDEXES TO A8STRACT JOURNALS. /OF 8ULL PUNCH CARD MACHINES TO 712 JPRS-13253
529 TION OF ORGANIC COMPOUND INDEXES FOR CHEMICAL A8STRACT JOURNALS. /EM OF THE AUTOMATIC COMPILA 529 JPRS-8479 P. 9
796 SELF-ORGANIZING SYSTEMS AND THE A8STRACT THEORY OF COMPUTERS. 796 JPRS-14624
271 THE PRO8LEM OF AUTOMATIC A8STRACTING AND POSSI8LE SOLUTIONS. 271 JPRS-893 P. 9D
706 TEXT. AUTOMATIC A8STRACTING 8ASED ON A STATISTICAL ANALYSIS OF THE 7D6 JPRS-13196
675 A METHOD OF SPECIAL A8STRACTING. 675 JPRS-13057
528 THE PRO8LEM OF SEARCHING CHEMICAL A8STRACTS 8Y TITLE. 528 JPRS-8479 P. 1
116 STUDIES IN THE MATHEMATICAL INSTITUTE OF THE ACADEMY OF SCIENCES USSR. MACHINE TRANSLATION 116 JPRS-241 P. 8
758 ON THE ACCEPTABILITY OF PHONOLOGICAL MODELS. 758 JPRS-13543 P. 481
512 INE TRANSLATION FROM RUSSIAN TO C/ SUCCESSFUL ACCOMPLISHMENT OF THE FIRST EXPERIMENT IN MACH 512 JPRS-8D26 P. 51
119 R8A AND THE PRO8LEMS OF MACHINE TRANSL/ THE ' ACTIVE ' AND ' PASSIVE ' GRAMMAR OF L. V. SHCHE 119 JPRS-241 P. 13
353 SPRING 1959 ACTIVITIES OF ASSOCIATION FOR MT IN THE USSR. 353 JPRS-3597 P. 2
357 ACTIVITIES OF SOME SOVIET MT PERSONALITIES. 357 JPRS-3597 P. 10
653 TION OF A SYSTEM OF INSTRUCTIONS FOR A THREE- ADDRESS COMPUTING AND LOGICAL MACHINE WITH A FLOATI 653 JPRS-11985
728 ON THE USE OF SYM8OLIC ADDRESSES. 728 JPRS-13514 P. 73
747 TINGUISHING FORMS ENDING IN -O (-E) WITH AN ADJECTIVAL STEM IN THE RUSSIAN LANGUAGE. /IS 747 JPRS-13543 P. 3D1
169 THE SUPERFLUOUSNESS OF RUSSIAN ADJECTIVE INFLECTION. 169 JPRS-241 P. 70
199 ANSLATION AND THE ESTA8LISHMENT OF SYSTEMS OF AGREEMENTS 8ETWEEN LANGUAGES. MACHINE TR 199 JPRS-487 P. 27
597 TIC CONNECTIONS IN MACHINE TRANSLATION 8Y THE AJDUKIEWICZ-8AR-HILLEL METHOD AND IN TERMS OF 597 JPRS-1D576 P. 42
582 ELEMENTARY ALGE8RAIC ANALYSIS OF THE LECERF-IHM CRITERION 582 JPRS-1D38D P. 2
727 IC COMPUTERS. ON THE REALIZATION OF ALGE8RAIC-DIFFERENTIAL ALGORITHMS ON ELECTRON 727 JPRS-13514 P. 45
642 PROPOSED CHANGES IN THE ALGOL-6D ALGORITHMIC LANGUAGE. 642 JPRS-11700
785 IMPLEMENTATION OF RECURSIVE PROCEDURES IN THE ALGOL-60 LANGUAGE. 785 JPRS-14164
585 ITH THE CONSTRUCTION OF A MACHINE TRANSLATION ALGORITHM). /F RUSSIAN SYNTAGMAS (IN CONNECTION W 585 JPRS-10429
739 SCIENTIFIC TEXT/ ON STANDARD OPERATORS FOR AN ALGORITHM FOR AUTOMATIC ANALYSIS OF RUSSIAN 739 JPRS-13543 P. 103
633 EX COMPOUND PRESENTED IN RATIONAL NOMENCL/ AN ALGORITHM FOR CONVERTING THE NAME OF A COMPL 633 JPRS-11483 P. 126
768 INE TRANSLATION FROM THE RU/ STRUCTURE OF THE ALGORITHM FOR GRAMMATICAL ANALYSIS (FOR MACH 768 JPRS-13761 P. 28
449 OF THE RUSSIAN LANGUAGE. CONSTRUCTION OF AN ALGORITHM FOR INDEPENDENT GRAMMATICAL ANALYSIS 449 JPRS-65D5 P. 1
749 YSIS OF THE SWEDISH LANGUAGE. ON AN ALGORITHM FOR INDEPENDENT MORPHOLOGICAL ANAL 749 JPRS-13543 P. 338
58D DESCRIPTION OF AN ALGORITHM FOR INFORMATION ANALYSIS. 58D JPRS-1D367 P. 62
738 THE OPERATIONAL FORM OF AN ALGORITHM FOR MACHINE TRANSLATION. 738 JPRS-13543 P. 86
733 SPECIAL FEATURES OF CODING AND PROGRAMMING AN ALGORITHM FOR MORPHOLOGICAL ANALYSIS OF THE 733 JPRS-13514 P. 330
753 N INDEPENDENT RUSSIAN LANGUAGE SYNTHESIS. AN ALGORITHM FOR ORDERING WORDS IN A SENTENCE I 753 JPRS-13543 P. 387
811 M8OLS. STUDY OF AN ALGORITHM FOR THE RECOGNITION OF MACHINE-WRITTEN SY 811 JPRS-16343
164 O ENGINEERING INTO RUSSIAN. AN ALGORITHM FOR TRANSLATING ENGLISH TEXTS ON RADI 164 JPRS-241 P. 67
145 LECTRONICALLY. AN ALGORITHM FOR TRANSLATING FRENCH INTO RUSSIAN E 145 JPRS-241 P. 45
766 / AN INFORMATION LANGUAGE FOR GEOMETRY AND AN ALGORITHM FOR TRANSLATING FROM RUSSIAN LANGUAG 766 JPRS-13761 P. 1
444 GUAGE INTO RUSSIAN. AN ALGORITHM FOR TRANSLATING FROM THE ENGLISH LAN 444 JPRS-6492 P. 41
632 IN ORGANIC CHEMISTRY INTO CANONICAL NOTA/ AN ALGORITHM FOR TRANSLATING STRUCTURAL FORMULAS 632 JPRS-11483 P. 63
685 NFO/ ON INFORMATION LANGUAGE FOR GEOMETRY AND ALGORITHM FOR TRANSLATION FROM RUSSIAN INTO I 685 JPRS-13173 P. 52
779 ATION LANGUAGE FOR GEOMETRY AND A TRANSLATION ALGORITHM FROM RUSSIAN TO THE INFORMATIONLANGU 779 JPRS-13790 P. 5
696 E (FOR TRANSLATION 8Y MEANS OF AN INTERM/ ON ALGORITHM OF ANALYSIS OF THE ENGLISH LANGUAG 696 JPRS-13173 P. 281
142 R8S WITH ALTERNATING STEMS IN CONSTRUCTING AN ALGORITHM OF MACHINE TRANSLATION FOR SPANISH (142 JPRS-241 P. 42
170 NTO RUSSIAN. AN ALGORITHM OF MACHINE TRANSLATION FROM ENGLISH I 170 JPRS-241 P. 71
176 WORK ON A 8URMESE-RUSSIAN ALGORITHM OF MACHINE TRANSLATION. 176 JPRS-241 P. 78
177 WORK ON AN ARA8IC-RUSSIAN ALGORITHM OF MACHINE TRANSLATION. 177 JPRS-241 P. 79
147 WORK ON AN INDONESIAN-RUSSIAN ALGORITHM OF MACHINE TRANSLATION. 147 JPRS-241 P. 46
148 WORKS ON A VIETNAMESE-RUSSIAN ALGORITHM OF MACHINE TRANSLATION. 148 JPRS-241 P. 47
149 WORK ON A JAPANESE-RUSSIAN ALGORITHM OF MACHINE TRANSLATION. 149 JPRS-241 P. 48
153 WORK ON A NORWEGIAN-RUSSIAN ALGORITHM OF MACHINE TRANSLATION. 153 JPRS-241 P. 54
162 WORK ON THE RUSSO-ENGLISH ALGORITHM OF MACHINE TRANSLATION. 162 JPRS-241 P. 64
163 WORK ON A HINDUSTANI (HINDI)-RUSSIAN ALGORITHM OF MACHINE TRANSLATION. 163 JPRS-241 P. 66
318 ROOT-SEPARATING PROGRAM FOR AN INDONESIAN ALGORITHM OF MACHINE TRANSLATION. 318 JPRS-215D P. 61
319 WORK ON A NORWEGIAN-RUSSIAN ALGORITHM OF MACHINE TRANSLATION. 319 JPRS-2150 P. 68
320 INITIAL STAGE OF WORK ON AN ARA8IC-RUSSIAN ALGORITHM OF MACHINE TRANSLATION. 32D JPRS-215D P. 79
323 WORK ON HINDUSTANI (HINDI)-RUSSIAN ALGORITHM OF MACHINE TRANSLATION. 323 JPRS-215D P. 149
324 NDEPENDENT ANALYSIS IN THE VIETNAMESE-RUSSIAN ALGORITHM OF MACHINE TRANSLATION. /MENTS OF I 324 JPRS-215D P. 154
321 LEMS IN THE CONSTRUCTION OF A 8URMESE-RUSSIAN ALGORITHM OF RUSSIAN TRANSLATION. CERTAIN PRO8 321 JPRS-2150 P. 91
718 THE CODING OF WORDS FOR AN ALGORITHM OF SYNTACTIC ANALYSIS. 718 JPRS-13321
614 ACHINE. AN ALGORITHM TO A8RIDGE GERMAN FOR INPUT INTO A M 614 JPRS-1D8D8 P. 7
52D RUSSIAN-GEORGIAN MACHINE TRANSLATION ALGORITHM. 520 JPRS-8313
166 A FRENCH-RUSSIAN TRANSLATION ALGORITHM. 166 JPRS-241 P. 68
241 SYM8OLIC RECORDING OF A MACHINE TRANSLATION ALGORITHM. 241 JPRS-893 P. 35
648 THE ISOLATION OF STEPS IN THE PLAN OF AN ALGORITHM. 648 JPRS-11844 P. 1
447 NE TRANSLATION. FRENCH-TO-RUSSIAN TRANSLATION ALGORITHM. FRENCH-TO-RUSSIAN MACHI 447 JPRS-6494 P. 14
634 INORGANIC COMPOUND NAMES INTO FORMULAS. ALGORITHMIC APPROACHES TO THE TRANSLATING OF 634 JPRS-11483 P. 134
642 PROPOSED CHANGES IN THE ALGOL-6D ALGORITHMIC LANGUAGE. 642 JPRS-117DD
311 OGRAMMIN/ OPERATOR DESCRIPTION OF TRANSLATION ALGORITHMS AND AUTOMATION OF THE PROCESS OF PR 311 JPRS-1145 P. 27
588 RIPTS WITH THE AID OF AN ELECTRONIC COMPUTER. ALGORITHMS AND PROGRAMS. /ANCIENT MAYAN MANUSC 588 JPRS-1D5D8 P. 6
6D9 DESIGNATIONS FROM 1 TO 999999.COMPOSITION OF ALGORITHMS FOR THE TRANSLATION OF WHOLE NUM8ER 6D9 JPRS-10777 P. 1
620 THE REALIZATION OF FUNCTIONS IN ALPHA8ETS 8Y ALGORITHMS OF SEVERAL CLASSES. CONCERNING 62D JPRS-1D865
727 ON THE REALIZATION OF ALGE8RAIC-DIFFERENTIAL ALGORITHMS ON ELECTRONIC COMPUTERS. 727 JPRS-13514 P. 45
365 OPERATOR DESCRIPTION OF TRANSLATION ALGORITHMS. 365 JPRS-3599 P. 5
385 OPERATOR DESCRIPTION OF TRANSLATION ALGORITHMS. 385 JPRS-3758 P. 1
239 OPERATOR DESCRIPTION OF TRANSLATION ALGORITHMS. 239 JPRS-893 P. 33
245 GUAGE MODELS AND THE STRUCTURE OF TRANSLATION ALGORITHMS. FORMAL MATHEMATICAL LAN 245 JPRS-893 P. 42
297 DOCUMENTS OF THE FIRST ALL-UNION CONFERENCE ON MACHINE TRANSLATION. 297 JPRS-1006
39D CS. ALL-UNION CONFERENCE ON MATHEMATICAL LINGUISTI 39D JPRS-3758 P. 66
337 INFORMATION AND ITS IMMEDIATE TASKS. THE ALL-UNION INSTITUTE OF SCIENTIFIC AND TECHNICAL 337 JPRS-3433 P. 1
312 THE LENINGRAD ALL-UNIVERSITY SEMINAR ON MACHINE TRANSLATION. 312 JPRS-1145 P. 44
355 SOCIETY OF PSYCHOLOGISTS. SECTION ON ALLIED PRO8LEMS OF PSYCHOLOGY AND LINGUISTICS, 355 JPRS-3597 P. 8
33D A MACHINE THAT READS ALOUD. 33D JPRS-3225 P. 1D
623 ON ALPHA8ETIC CODING. 623 JPRS-11D88 P. 6

620 CONCERNING THE REALIZATION OF FUNCTIONS IN
142 EMS CONNECTED WITH THE HANDLING OF VERBS WITH
139 PORARY THEORETICAL LINGUISTICS IN ANCIE/ SOME
722 G CORRESPONDENCES (FOR AUTOMATIC SYNTACTICAL
401 TWEEN WORDS (AN EXPERIMENT IN TRANSFORMATION
667 STRONG GOVERNMENT ' (FOR AUTOMATIC SYNTACTIC
768 U/ STRUCTURE OF THE ALGORITHM FOR GRAMMATICAL
557 AUTOMATIC
699 TRUCTURE OF A LANGUAGE TEXT. ON
606 ERN.
555 ANITIES.
532 N PROBLEMS IN THE FIELD OF PHYSICAL- CHEMICAL
743 N OF THE STRUCTURE OF INDEPENDENT GRAMMATICAL
159 O RUSSIAN. GRAMMATICAL
732 R DISTINCTION OF HOMONYMY OF MORPHEMES DURING
288 TO RUSSIAN. GRAMMATICAL
730 MORPHOLOGICAL
324 OF MACHINE TRANSLATI/ ELEMENTS OF INDEPENDENT
756 E TRANSLATION FROM CHINESE TO RUSSIAN. AN
759 PERIMENT IN CONSTRUCTING A SYSTEM FOR GRAPHIC
740 RANS/ A SYSTEM OF INDEPENDENT CONFIGURATIONAL
742 OLVING CONVERSION HOMONYMY DURING INDEPENDENT
741 TURE AND NATURE OF A GLOSSARY FOR INDEPENDENT
748 TACTICAL INDICATORS FOR WORDS AND SYNTACTICAL
755 ACHINE TRANSLATION FROM CHINESE TO RUSSIAN.AN
360 OF USING PUNCH CARD MACHINES FOR STATISTICAL
173 SIMILAR MEM/ SOME PROBLEMS CONNECTED WITH THE
261 RSION INTO AN INT/ THE PROBLEM OF GRAMMATICAL
539 ON ROUTINES FOR
523 ENGINEERING. CLASSIFICATION AND BIBLIOGRAPHIC
301 THE
420 CONCERNING WORK ON THE STRUCTURAL
783 IAN LANGUAGE. FORMAL
677 PROGRAM FOR THE
698 LANGUAGE. SYNTACTIC
172 ANSLATION FROM RUSSIAN.
284 ATION FROM RUSSIAN.
739 OARD OPERATORS FOR AN ALGORITHM FOR AUTOMATIC
731 THE DETERMINATION OF VERB STEMS FOR AUTOMATIC
402 SYMPOSIUM ON METHOD OF SPECTRAL
807 INING LETTER COMBINATIONS THROUGH STATISTICAL
566
143 A LOGICAL
696 LATION BY MEANS OF AN INTERM/ ON ALGORITHM OF
368 PROCESSING PREFIXES IN MACHINE
230 AN ' ELEMENTARY GRAMMATICAL CATEGORY ' TO AN
744 THE STRUCTURE OF A DICTIONARY AND RULES FOR
582 ELEMENTARY ALGEBRAIC
305 LOGICAL
322 AN/ A PROJECT OF PROGRAMS FOR A MORPHOLOGICAL
733 NO PROGRAMMING AN ALGORITHM FOR MORPHOLOGICAL
449 N OF AN ALGORITHM FOR INDEPENDENT GRAMMATICAL
326 E IN ENGLISH. FIRST STAGE OF AN INDEPENDENT
749 ON AN ALGORITHM FOR INDEPENDENT MORPHOLOGICAL
750 THE PRINCIPLES OF SYNTACTICAL
706 AUTOMATIC ABSTRACTING BASED ON A STATISTICAL
690 ON
362 AN TEXT. STATISTICAL
576 A SELF-PRIMING AUTOMATIC
193 RUSSIAN SENTENCE
248 THE CONCEPT OF EXPRESSION AND SYNTAGMATIC
718 CODING OF WORDS FOR AN ALGORITHM OF SYNTACTIC
395 WHAT IS TRANSFORM
580 DESCRIPTION OF AN ALGORITHM FOR INFORMATION
688 IMINARY ARTICULATION OF SENTENCE IN SYNTACTIC
782 G SENTENCES IN MT ON THE BASIS OF SYNTAGMATIC
597 R-HILLEL METHOD AND IN TERMS OF CONFIGURATION
746 TIONS OF PREPOSITIONAL PHRASES THROUGH FORMAL
697 TREATMENT WITH HOMONYMY OF PARTS OF SPEECH IN
168 ON OF MORPHOLOGICAL AND SYNTACTIC HOMONYMY IN
745 ON THE CONSTRUCTION OF RULES FOR
238 REMARKS ON A METHOD OF
139 OS OF CONTEMPORARY THEORETICAL LINGUISTICS IN
589 ELECTRONIC COMPUTER. PRELIM/ INVESTIGATION OF
587 LECTRONIC COMPUTER. METHODS. INVESTIGATION OF
588 LECTRONIC COMPUTER. ALGORIT/ INVESTIGATION OF
144 LATION OF THE PROBLEM).
104 LIMITS OF
603 ESSES, STOCHASTIC DIFFERENTIAL EQUATIONS, AND
514 RIE'S BOOK DE LA NECESSITE D'UNE LINGUISTIQUE
127 L THEORY OF DEFINITION AND THE POSSIBILITY OF
601 YSTEM TO THE ORGANIZAT/ SOME POSSIBILITIES OF
320 N. INITIAL STAGE OF WORK ON AN
177 . WORK ON AN
605 MACHINES
213 LINGUISTICS AND MACHINE TRANSLATION SET UP IN
369 WORD-FORMING SUFFIXES OF THE
263 NPUT LANGUAGE INTO INTERMEDIARY LANGUAGE (ON
486 A FEW COMMENTS ON BELA ZENTAI'S
373 SCIPLINES, 1957-1958. BIBLIOGRAPHY OF

ALPHABETS BY ALGORITHMS OF SEVERAL CLASSES. 620 JPRS-10865
ALTERNATING STEMS IN CONSTRUCTING AN ALGORITHM 142 JPRS-241 P. 42
ANALOGIES TO THE PROBLEMS AND METHODS OF CONTEM 139 JPRS-241 P. 37
ANALYSIS). TWO OPERATORS FOR ESTABLISHIN 722 JPRS-13444
ANALYSIS). /ISHMENT OF DERIVATIVE RELATIONS BE 401 JPRS-6094 P. 1
ANALYSIS). /R PROCESSING WORD COMBINATIONS WITH ' 667 JPRS-12441
ANALYSIS (FOR MACHINE TRANSLATION FROM THE R 768 JPRS-13761 P. 28
ANALYSIS (PROGRAMS OF CONFLICTS). 557 JPRS-8938 P. 39
ANALYSIS AND A POSSIBLE WAY OF SIMPLIFYING S 699 JPRS-13173 P. 325
ANALYSIS AND DEVELOPMENT OF A LINGUISTIC PATT 606 JPRS-10721 P. 14
ANALYSIS AND SELECTION OF DOCUMENTS IN THE HUM 555 JPRS-8938 P. 33
ANALYSIS AND THEIR SOLUTION BY MEANS OF ELECTR 532 JPRS-8479 P. 69
ANALYSIS FOR MACHINE TRANSLATION FROM THE GE 743 JPRS-13543 P. 231
ANALYSIS FOR MACHINE TRANSLATION OF CHINESE INT 159 JPRS-241 P. 60
ANALYSIS IN MACHINE TRANSLATION). /AGE (FO 732 JPRS-13514 P. 313
ANALYSIS IN MACHINE TRANSLATION FROM CHINESE IN 288 JPRS-925 P. 83
ANALYSIS IN MACHINE TRANSLATION. 730 JPRS-13514 P. 129
ANALYSIS IN THE VIETNAMESE-RUSSIAN ALGORITHM 324 JPRS-2150 P. 154
ANALYSIS OF AUXILIARY WORDS IN BINARY MACHIN 756 JPRS-13543 P. 436
ANALYSIS OF CHINESE CHARACTERS. AN EX 759 JPRS-13543 P. 503
ANALYSIS OF CHINESE TEXT MATTER IN MACHINE T 740 JPRS-13543 P. 165
ANALYSIS OF CHINESE TEXT MATTER. ON S 742 JPRS-13543 P. 217
ANALYSIS OF CHINESE TEXT MATTER. THE STRUC 741 JPRS-13543 P. 209
ANALYSIS OF CLAUSES. SYN 748 JPRS-13543 P. 315
ANALYSIS OF CLOSED CONSTRUCTIONS IN BINARY M 755 JPRS-13543 P. 423
ANALYSIS OF COMMUNICATIONS. METHOD 360 JPRS-3598 P. 11
ANALYSIS OF COMPLEX SENTENCES AND CLAUSES WITH 173 JPRS-241 P. 75
ANALYSIS OF ENGLISH SENTENCE STRUCTURE IN CONVE 261 JPRS-893 P. 76
ANALYSIS OF GEORGIAN FOR MACHINE TRANSLATION. 539 JPRS-8929 P. 1
ANALYSIS OF INFORMATION REQUESTS IN ELECTRICAL 523 JPRS-8372 P. 6
ANALYSIS OF JAPANESE IN MACHINE TRANSLATION. 301 JPRS-1130
ANALYSIS OF LANGUAGE. 420 JPRS-6236 P. 41
ANALYSIS OF PASSIVE CONSTRUCTIONS IN THE RUSS 783 JPRS-13790 P. 54
ANALYSIS OF PHRASEOLOGICAL COMPLEXES. 677 JPRS-13134
ANALYSIS OF PREPOSITIONAL GROUPS IN ENGLISH 698 JPRS-13173 P. 314
ANALYSIS OF PUNCTUATION MARKS DURING MACHINE TR 172 JPRS-241 P. 73
ANALYSIS OF PUNCTUATION MARKS IN MACHINE TRANSL 284 JPRS-925 P. 25
ANALYSIS OF RUSSIAN SCIENTIFIC TEXT MATTER. 739 JPRS-13543 P. 103
ANALYSIS OF RUSSIAN TEXT MATTER. /PROACH TO 731 JPRS-13514 P. 303
ANALYSIS OF SPEECH. 402 JPRS-6094 P. 13
ANALYSIS OF TEXT MATTER. OETERM 807 JPRS-15839 P. 20
ANALYSIS OF THE COMPLEX SENTENCE (GERMAN). 566 JPRS-8966
ANALYSIS OF THE CONCEPT OF LANGUAGE STRUCTURE. 143 JPRS-241 P. 43
ANALYSIS OF THE ENGLISH LANGUAGE (FOR TRANS 696 JPRS-13173 P. 281
ANALYSIS OF THE GEORGIAN LANGUAGE. 368 JPRS-3599 P. 33
ANALYSIS OF THE GERMAN CASES. /HIN'S CONCEPT OF 230 JPRS-893 P. 21
ANALYSIS OF THE GERMAN LANGUAGE. 744 JPRS-13543 P. 246
ANALYSIS OF THE LECERF-IHM CRITERION. 582 JPRS-10380 P. 2
ANALYSIS OF THE PHONEME CONCEPT. 305 JPRS-1132
ANALYSIS OF THE RUSSIAN LANGUAGE IN MACHINE TR 322 JPRS-2150 P. 99
ANALYSIS OF THE RUSSIAN LANGUAGE ON THE KIEV 733 JPRS-13514 P. 330
ANALYSIS OF THE RUSSIAN LANGUAGE. CONSTRUCTIO 449 JPRS-6505 P. 1
ANALYSIS OF THE STRUCTURE OF THE SIMPLE CLAUS 326 JPRS-2150 P. 166
ANALYSIS OF THE SWEDISH LANGUAGE. 749 JPRS-13543 P. 338
ANALYSIS OF THE TARTAR LANGUAGE. 750 JPRS-13543 P. 355
ANALYSIS OF THE TEXT. 706 JPRS-13196
ANALYSIS OF THIRD-PERSON PRONOUN. 690 JPRS-13173 P. 192
ANALYSIS OF THREE-LETTER COMBINATIONS IN RUSSI 362 JPRS-3598 P. 31
ANALYSIS UNIT. 576 JPRS-10367 P. 4
ANALYSIS. 193 JPRS-387
ANALYSIS. 248 JPRS-893 P. 49
ANALYSIS. THE 718 JPRS-13321
ANALYSIS. 395 JPRS-3796 P. 32
ANALYSIS. 580 JPRS-10367 P. 62
ANALYSIS. PREL 688 JPRS-13173 P. 151
ANALYSIS. A METHOD OF SYNTHESIZIN 782 JPRS-13790 P. 49
ANALYSIS. /TRANSLATION BY THE AJDUKIEWICZ-BA 597 JPRS-10576 P. 42
ANALYSIS. /TABLISHING THE SYNTACTICAL CONNEC 746 JPRS-13543 P. 289
ANALYZING ENGLISH TEXT. WORD 697 JPRS-13173 P. 305
ANALYZING ENGLISH TEXTS. ELIMINATI 168 JPRS-241 P. 69
ANALYZING ENGLISH VERBS. 745 JPRS-13543 P. 267
ANALYZING GAPS. 238 JPRS-893 P. 32
ANCIENT INDIAN GRAMMATICAL WORKS. /MS AND METHO 139 JPRS-241 P. 37
ANCIENT MAYAN MANUSCRIPTS WITH THE AID OF AN 589 JPRS-10508 P. 10
ANCIENT MAYAN MANUSCRIPTS WITH THE AID OF AN E 587 JPRS-10508 P. 1
ANCIENT MAYAN MANUSCRIPTS WITH THE AID OF AN E 588 JPRS-10508 P. 6
ANCIENT TEXTS AND MACHINE TRANSLATION (A FORMU 144 JPRS-241 P. 44
APPLICABILITY OF MACHINE TRANSLATION. 104 JPRS-68 P. 30
APPLICATIONS. MULTIPLICATIVE PROC 603 JPRS-10679
APPLIQUEE. REVIEW OF SAINT-MA 514 JPRS-8026 P. 56
APPLYING IT TO THE THEORY OF TRANSLATION DEVICE 127 JPRS-241 P. 23
APPLYING S. R. RANGANATHAN'S CLASSIFICATION S 601 JPRS-10597 P. 21
ARABIC-RUSSIAN ALGORITHM OF MACHINE TRANSLATIO 320 JPRS-2150 P. 79
ARABIC-RUSSIAN ALGORITHM OF MACHINE TRANSLATION 177 JPRS-241 P. 79
ARE LEARNING LANGUAGES. 605 JPRS-10721 P. 1
ARMENIA. COMMISSION ON APPLIED 213 JPRS-662 P. 6
ARMENIAN LANGUAGE IN MATHEMATICAL LITERATURE. 369 JPRS-3599 P. 39
ARMENIAN MATERIAL). CONVERSION OF I 263 JPRS-893 P. 78
ARTICLE. 486 JPRS-6680 P. 34
ARTICLES ON MACHINE TRANSLATION AND RELATED DI 373 JPRS-3599 P. 55

688 IS. PRELIMINARY ARTICULATION OF SENTENCE IN SYNTACTIC ANALYS 688 JPRS-13173 P. 151
112 AN INTERMEDIARY LANGUAGE AND ARTIFICIAL INTERNATIONAL LANGUAGES. 112 JPRS-241 P. 5
329 THE MEMORY ASKS FOR HELP. 329 JPRS-3225 P. 1
583 REPORT ON THE WORK OF G.E.D.S.H. (MARC BLOCH ASSOCIATION) OURING FIRST QUARTER 196D. 583 JPRS-10380 P. 6
572 REPORT ON THE WORK OF G.E.O.S.H. (MARC BLOCH ASSOCIATION) DURING SECOND QUARTER 196D. 572 JPRS-10361 P. 2
515 MINAR ON SE/ CHRONICLE OF THE MEETINGS OF THE ASSOCIATION FOR MACHINE TRANSLATION AND THE SE 515 JPRS-8D26 P. 57
2D2 THE ASSOCIATION FOR MACHINE-TRANSLATION PROBLEMS. 2D2 JPRS'487 P. 32
353 SPRING 1959 ACTIVITIES OF ASSOCIATION FOR MT IN THE USSR. 353 JPRS-3597 P. 2
340 IC TRANSLATION AND APPLIED LINGUISTICS. ASSOCIATION FOR THE STUDY AND DEVELOPMENT OF AUTOMAT 34D JPRS-3474
122 AN OBJECTIVE INVESTIGATION OF MEANING ASSOCIATIONS. 122 JPRS-241 P. 19
427 NEWS OF ATALA. 427 JPRS-6239 P. 19
432 NEWS OF ATALA. AND NOTES AND DISCUSSIONS. 432 JPRS-624D P. 17
271 THE PROBLEM OF AUTOMATIC ABSTRACTING AND POSSIBLE SOLUTIONS. 271 JPRS-893 P. 90
706 IS OF THE TEXT. AUTOMATIC ABSTRACTING BASED ON A STATISTICAL ANALYS 7D6 JPRS-13196
557 AUTOMATIC ANALYSIS (PROGRAMS OF CONFLICTS). 557 JPRS-8938 P. 39
739 T/ ON STANDARD OPERATORS FOR AN ALGORITHM FOR AUTOMATIC ANALYSIS OF RUSSIAN SCIENTIFIC TEX 739 JPRS-13543 P. 1D3
731 PROACH TO THE DETERMINATION OF VERB STEMS FOR AUTOMATIC ANALYSIS OF RUSSIAN TEXT MATTER. / 731 JPRS-13514 P. 3D3
576 A SELF-PRIMING AUTOMATIC ANALYSIS UNIT. 576 JPRS-10367 P. 4
529 ES FOR CHEMICAL ABSTRACT/ THE PROBLEM OF THE AUTOMATIC COMPILATION OF ORGANIC COMPOUND INDEX 529 JPRS-8479 P. 9
651 SOME PROBLEMS OF SYNTHESIS FOR AUTOMATIC DIGITAL MACHINES. 651 JPRS-11911
561 FULLY AUTOMATIC DOCUMENTATION. 561 JPRS-8938 P. 48
56D EEN THE PROBLEMS OF AUTOMATIC TRANSLATION AND AUTOMATIC DOCUMENTATION. COMMON POINTS BETW 56D JPRS-8938 P. 46
492 AUTOMATIC LEXICAL CODING OF MESSAGES. 492 JPRS-6732 P. 23
659 REALIZABLE SEQUENCES IN FINAL AUTOMATIC MACHINES. 659 JPRS-12048
802 IMENTS IN THE RECOGNITION OF SPEECH SOUNDS BY AUTOMATIC MACHINES. EXPER 8D2 JPRS-15754
280 LANGUAGES. AUTOMATIC PROGRAMMING AS TRANSLATION IN FORMAL 28D JPRS-893 P. 1D1
667 COMBINATIONS WITH ' STRONG GOVERNMENT ' (FOR AUTOMATIC SYNTACTIC ANALYSIS). /R PROCESSING WORD 667 JPRS-12441
722 RATORS FOR ESTABLISHING CORRESPONDENCES (FOR AUTOMATIC SYNTACTICAL ANALYSIS). TWO OPE 722 JPRS-13444
195 EDITION OF PANOV'S AVTOMATICHESKIY PEREVOD (AUTOMATIC TRANSLATION).EXTRACTS FROM THE SECOND 195 JPRS-487 P. 1
340 ASSOCIATION FOR THE STUDY AND DEVELOPMENT OF AUTOMATIC TRANSLATION AND APPLIED LINGUISTICS. 34D JPRS-3474
56D ION. COMMON POINTS BETWEEN THE PROBLEMS OF AUTOMATIC TRANSLATION AND AUTOMATIC DOCUMENTAT 56D JPRS-8938 P. 46
425 AUTOMATIC TRANSLATION AROUND THE WORLD. 425 JPRS-6239 P. 16
431 AUTOMATIC TRANSLATION AROUND THE WORLD. 431 JPRS-624D P. 14
399 AUTOMATIC TRANSLATION BY THE ' YAMATO ' COMPUTER. 399 JPRS-3948
429 GRAMMATICAL STRUCTURE AND AUTOMATIC TRANSLATION. 429 JPRS-624D P. 1
426 DEWEZE'S BOOK ON AUTOMATIC TREATMENT OF THE RUSSIAN VERB. 426 JPRS-6239 P. 18
273 THE POSSIBILITIES OF AUTOMATION IN LINGUISTIC RESEARCH. 273 JPRS-893 P. 91
311 TOR DESCRIPTION OF TRANSLATION ALGORITHMS AND AUTOMATION OF THE PROCESS OF PROGRAMMING THEM. 311 JPRS-1145 P. 27
638 POUND NAMES INTO STANDARD FORM AND STRUCTURA/ AUTOMATION OF THE TRANSLATION OF ORGANIC COM 638 JPRS-11483 P. 171
488 QUESTIONS OF AUTOMATION PROGRAMMING. 488 JPRS-6729
535 PROGRAMMING AND PROGRAM AUTOMATION. 535 JPRS-8591
422 INTRODUCTION (TO LA TRADUCTION AUTOMATIQUE). 422 JPRS-6239 P. 1
191 OTHER. THE AUTOMATIZATION OF TRANSLATION FROM ONE LANGUAGE TO AN 191 JPRS-379
165 AUTOMATIZATION OF TRANSLATION PROGRAMMING. 165 JPRS-241 P. 67
64D SENTED TO IT. THE SYNTHESIS OF AN ABSTRACT AUTOMATON BY AN EVENT ON AN ELECTRONIC COMPUTER PRE 64D JPRS-11699
778 AUTOMATONS AND LIVING BEINGS. 778 JPRS-1379D P. 1
729 A PROGRAM (SPO-1). AN AUXILIARY STANDARD SUBROUTINE FOR DEBUGGING 729 JPRS-13514 P. 1D7
756 N FROM CHINESE TO RUSSIAN. AN ANALYSIS OF AUXILIARY WORDS IN BINARY MACHINE TRANSLATIO 756 JPRS-13543 P. 436
195).EXTRACTS FROM THE SECOND EDITION OF PANOV'S AVTOMATICHESKIY PEREVOD (AUTOMATIC TRANSLATION 195 JPRS-487 P. 1
611 HE ELIMINATION OF SYNTACTICAL HOMONYMY ON THE BASIS OF FORMAL DESCRIPTION OF CONTEXT IN MOD 611 JPRS-10777 P. 38
228 RUCTURE. MODELING A LANGUAGE ON THE BASIS OF ITS STATISTICAL AND THEORETICAL-SET ST 228 JPRS-893 P. 12
782 METHOD OF SYNTHESIZING SENTENCES IN MT ON THE BASIS OF SYNTAGMATIC ANALYSIS. A 782 JPRS-13790 P. 49
208 ETHOD OF DEFINING GRAMMATICAL CONCEPTS ON THE BASIS OF THE THEORY OF SETS. ONE M 208 JPRS-646 P. 1
778 AUTOMATONS AND LIVING BEINGS. 778 JPRS-1379D P. 1
486 A FEW COMMENTS ON BELA ZENTAI'S ARTICLE. 486 JPRS-668D P. 34
523 IN ELECTRICAL ENGINEERING. CLASSIFICATION AND BIBLIOGRAPHIC ANALYSIS OF INFORMATION REQUESTS 523 JPRS-8372 P. 6
669 ION. BIBLIOGRAPHIC DESCRIPTION AS AN ELEMENT OF INFORMAT 669 JPRS-12957
338 AGE IN SCIENTIFIC RESEARCH. BIBLIOGRAPHIC INFORMATION WORK- AN IMPORTANT ST 338 JPRS-3433 P. 9
48D RGANIZATION. INFORMATION AND BIBLIOGRAPHIC WORK IN THE SCIENTIFIC RESEARCH O 48D JPRS-6633 P. 7
373 N AND RELATED DISCIPLINES, 1957-1958. BIBLIOGRAPHY OF ARTICLES ON MACHINE TRANSLATIO 373 JPRS-3599 P. 55
755 USSIAN.AN ANALYSIS OF CLOSED CONSTRUCTIONS IN BINARY MACHINE TRANSLATION FROM CHINESE TO R 755 JPRS-13543 P. 423
756 USSIAN. AN ANALYSIS OF AUXILIARY WORDS IN BINARY MACHINE TRANSLATION FROM CHINESE TO R 756 JPRS-13543 P. 436
637 SYNTHETIC LANGUAGES FOR BIOLOGY. 637 JPRS-11483 P. 157
137 LANGUAGE TRAINING FOR BLIND DEAF-MUTES. 137 JPRS-241 P. 35
171 E READING OF ORDINARY PRINTED MATERIAL BY THE BLIND. A DEVICE FOR TH 171 JPRS-241 P. 72
583 REPORT ON THE WORK OF G.E.D.S.H. (MARC BLOCH ASSOCIATION) OURING FIRST QUARTER 196D. 583 JPRS-10380 P. 6
572 . REPORT ON THE WORK OF G.E.O.S.H. (MARC BLOCH ASSOCIATION) DURING SECOND QUARTER 196D 572 JPRS-10361 P. 2
635 PROBLEMS INVOLVED IN USING SEMANTIC BONDS IN AN INFORMATION MACHINE. 635 JPRS'11483 P. 150
412 N '. REVIEW OF A. V. FEDEROV'S BOOK ' INTRODUCTION TO THE THEORY OF TRANSLATIO 412 JPRS-6152 P. 1
414 DISCUSSION OF V. A. ZVEGINTSEV'S BOOK ' SEMASIOLOGY '. 414 JPRS-6152 P. 14
514 UEE. REVIEW OF SAINT-MARIE'S BOOK DE LA NECESSITE D'UNE LINGUISTIQUE APPLIQ 514 JPRS-8D26 P. 56
426 8. DEWEZE'S BOOK ON AUTOMATIC TREATMENT OF THE RUSSIAN VER 426 JPRS-6239 P. 18
501 E THEORETICAL POSITIONS OF V. A. ZVEGINTSEV'S BOOK SEMASIOLOGIYA (SEMASIOLOGY). SOM 501 JPRS-6938 P. 11
513 REVIEW OF LAMBEK'S BOOK THE MATHEMATICS OF SENTENCE STRUCTURE. 513 JPRS-8D26 P. 53
771 MACHINE BREAKDOWN OF THE GEORGIAN SENTENCE. 771 JPRS-13761 P. 74
13D METHODS OF BREAKING DOWN A SYNTACTIC WHOLE. 13D JPRS-241 P. 26
115 THE SEQUENCE IN BUILDING A LANGUAGE SYSTEM. 115 JPRS-241 P. 7
716 ABLE OF RUSSIAN GRAPHEMES (ON THE PROBLEM OF BUILDING A READING DEVICE). CLASSIFICATION OF A T 716 JPRS-13256
712 AND ANNUAL INDEXES TO ABSTRACT JO/ THE USE OF BULL PUNCH CARD MACHINES TO COMPILE ISSUE-BY-ISSUE 712 JPRS-13253
484 TECHNICAL INFORMATION BUREAUS IN THE SOVIET UNION. 484 JPRS-6680 P. 2
176 N. WORK ON A BURMESE-RUSSIAN ALGORITHM OF MACHINE TRANSLATIO 176 JPRS-241 P. 78
321 ON. CERTAIN PROBLEMS IN THE CONSTRUCTION OF A BURMESE-RUSSIAN ALGORITHM OF RUSSIAN TRANSLATI 321 JPRS-215D P. 91
663 NAL MEMORY. THE UNIVERSALITY OF A CALCULATING MACHINE WITH POTENTIALLY INFINITE EXTER 663 JPRS-12D5D
256 UT LANGUAGE INTO INTERMEDIARY LANGUAGE. THE CALCULATION OF VALENCES IN TRANSLATION FROM INP 256 JPRS-893 P. 73
649 NCY OF RANDOM/ THE DEPENDENCE OF THE TIME OF CALCULATION ON THE STEP LENGTH AND THE FREQUE 649 JPRS-11844 P. 15
774 / ESSAYS ON AND IN MACHINE TRANSLATION BY THE CAMBRIDGE LANGUAGE RESEARCH UNIT, CAMBRIDGE, 774 JPRS-13761 P. 1D2
774 TION BY THE CAMBRIDGE LANGUAGE RESEARCH UNIT, CAMBRIDGE, ENGLAND, JUNE 1959. /HINE TRANSLA 774 JPRS-13761 P. 1D2
632 STRUCTURAL FORMULAS IN ORGANIC CHEMISTRY INTO CANONICAL NOTATION. /GORITHM FOR TRANSLATING 632 JPRS-11483 P. 63
813 A MACHINE CAPABLE OF CONVERSING. 813 JPRS-17184 P. 1
36D UNICATIONS. METHOD OF USING PUNCH CARD MACHINES FOR STATISTICAL ANALYSIS OF COMM 36D JPRS-3598 P. 11

712 INDEXES TO ABSTRACT JO/ THE USE OF BULL PUNCH CARD MACHINES TO COMPILE ISSUE-BY-ISSUE AND ANNUAL 712 JPRS-13253
794 VEY). THE USE OF PUNCHED CARDS IN INDUSTRIAL AND RESEARCH LABORATORIES (SUR 794 JPRS-14468
387 STATISTICS ON RUSSIAN CASES. 387 JPRS-375B P. 31
23D TICAL CATEGORY ' TO AN ANALYSIS OF THE GERMAN CASES. /HIN'S CONCEPT OF AN ' ELEMENTARY GRAMMA 23D JPRS-B93 P. 21
257 S IN THE INTERMEDIARY LANGUAGE. THE CATEGORIES OF NUMBER IN NOUNS AND TENSE IN VER8 257 JPRS-893 P. 73
23D SHIN'S CONCEPT OF AN ' ELEMENTARY GRAMMATICAL CATEGORY ' TO AN ANALYSIS OF THE GERMAN CASES. 23D JPRS-893 P. 21
155 GENDER AS A SUPERFLUOUS CATEGORY OF THE RUSSSIAN VER8. 155 JPRS-241 P. 56
615 THE CATEGORY OF VOICE IN AN INTERMEDIARY LANGUAGE 615 JPRS-1D8D8 P. 10
258 THE CATEGORY OF VOICE IN THE INTERMEDIARY LANGUAGE. 258 JPRS-893 P. 74
125 PERIMENT TO DEFINE THE CONCEPT OF GRAMMATICAL CATEGORY. AN EX 125 JPRS-241 P. 21
642 PROPOSED CHANGES IN THE ALGOL-6D ALGORITHMIC LANGUAGE. 642 JPRS-117DD
35D SYSTEMS FOR RECOGNITION OF VISIBLE PATTERNS (CHARACTER RECOGNITION DEVICES). /IONS OF IMAGES IN 35D JPRS-357D
618 CERTAIN ASPECTS OF THE CHARACTERISTIC OF VALENCES. 618 JPRS-1D814 P. 32
461 S ON THE TIME DISTRIBUTION OF SEGMENTS OF THE CHARACTERISTIC UTTERANCE OF RUSSIAN VOWELS. /C 461 JPRS-6543 P. 31
459 STOCHASTIC SIGNALS, PARTICULARLY/ THE POWER CHARACTERISTICS AND THE CORRELATION INTERVAL OF 459 JPRS-6543 P. 7
754 NARY FOR MACHINE TRANSLATION. THE BASIC CHARACTERISTICS OF A JAPANESE-RUSSIAN DICTIO 754 JPRS-13543 P. 413
285 AL ROUTINES FOR MACHINE TRANSLATION FR/ BASIC CHARACTERISTICS OF THE DICTIONARY AND GRAMMATIC 285 JPRS-925 P. 36
568 OR CHEMICAL COMPOUNDS ACCORDING TO STRUCTURAL CHARACTERISTICS. /' FILTER ' SYSTEM FOR SEARCHING F 568 JPRS-8991
759 TING A SYSTEM FOR GRAPHIC ANALYSIS OF CHINESE CHARACTERS. AN EXPERIMENT IN CONSTRUC 759 JPRS-13543 P. 5D3
529 C COMPILATION OF ORGANIC COMPOUND INDEXES FOR CHEMICAL ABSTRACT JOURNALS. /EM OF THE AUTOMATI 529 JPRS-8479 P. 9
528 THE PROBLEM OF SEARCHING CHEMICAL ABSTRACTS BY TITLE. 528 JPRS-8479 P. 1
532 NFORMATION PROBLEMS IN THE FIELD OF PHYSICAL- CHEMICAL ANALYSIS AND THEIR SOLUTION BY MEANS 532 JPRS-8479 P. 69
568 ISTI/ THE ' FILTER ' SYSTEM FOR SEARCHING FOR CHEMICAL COMPOUNDS ACCORDING TO STRUCTURAL CHARACTER 568 JPRS-B991
524 ON A DICTIONARY OF CHEMICAL COMPOUNDS. 524 JPRS-8372 P. 11
531 SYSTEM OF RECORDING AND SEARCHING CLASSES OF CHEMICAL COMPOUNDS. A 531 JPRS-8479 P. 55
533 AND OUTPUT OF INFORMATION ON THE STRUCTURE OF CHEMICAL COMPOUNDS. MACHINE INPUT 533 JPRS-8479 P. 77
375 METHODS OF IMPROVING CHEMICAL INDEXES. 375 JPRS-3613
267 RCH FOR INFOR/ CONCERNING CERTAIN PROBLEMS OF CHEMICAL LINGUISTICS CONNECTED WITH MACHINE SEA 267 JPRS-B93 P. 84
686 ON TRANSLATION OF TITLES OF CHEMICAL PAPERS INTO INFORMATION LANGUAGES. 6B6 JPRS-13173 P. 99
187 TH MENDELEYEV CONGRESS ON GENERAL AND APPLIED CHEMISTRY). /). (REPORTS TO THE SYMPOSIUM AT THE 8 187 JPRS-331
187 TILIZATION OF INFORMATION-LOGICAL MACHINES IN CHEMISTRY (USSR). (REPORTS TO THE SYMPOSIUM AT THE 187 JPRS-331
632 OR TRANSLATING STRUCTURAL FORMULAS IN ORGANIC CHEMISTRY INTO CANONICAL NOTATION. /GORITHM F 632 JPRS-11483 P. 63
631 ED IN CREATING A MACHINE LANGUAGE FOR ORGANIC CHEMISTRY. PROBLEMS INVOLV 631 JPRS-11483 P. 42
526 FOR RECORDING STRUCTURAL FORMULAS IN ORGANIC CHEMISTRY. ON CERTAIN SYSTEMS 526 JPRS-B372 P. 36
759 CONSTRUCTING A SYSTEM FOR GRAPHIC ANALYSIS OF CHINESE CHARACTERS. AN EXPERIMENT IN 759 JPRS-13543 P. 5D3
3D7 MACHINE TRANSLATION OF CHINESE INTO RUSSIAN. 3D7 JPRS-1133
159 AMMATICAL ANALYSIS FOR MACHINE TRANSLATION OF CHINESE INTO RUSSIAN. GR 159 JPRS-241 P. 6D
288 MMATICAL ANALYSIS IN MACHINE TRANSLATION FROM CHINESE INTO RUSSIAN. GRA 288 JPRS-925 P. 83
183 AL PRINCIPLES OF MACHINE TRANSLATION FROM THE CHINESE LANGUAGE. THE GENER 1B3 JPRS-319 P. 1D
3D3 RESEARCH ON MACHINE TRANSLATION IN THE CHINESE PEOPLE'S REPUBLIC. 3D3 JPRS-1131
74D EM OF INDEPENDENT CONFIGURATIONAL ANALYSIS OF CHINESE TEXT MATTER IN MACHINE TRANSLATION. 740 JPRS-13543 P. 165
742 RSION HOMONYMY DURING INDEPENDENT ANALYSIS OF CHINESE TEXT MATTER. ON SOLVING CONVE 742 JPRS-13543 P. 217
741 URE OF A GLOSSARY FOR INDEPENDENT ANALYSIS OF CHINESE TEXT MATTER. THE STRUCTURE AND NAT 741 JPRS-13543 P. 2D9
756 IARY WORDS IN BINARY MACHINE TRANSLATION FROM CHINESE TO RUSSIAN. AN ANALYSIS OF AUXIL 756 JPRS-13543 P. 436
755 STRUCTIONS IN BINARY MACHINE TRANSLATION FROM CHINESE TO RUSSIAN.AN ANALYSIS OF CLOSED CON 755 JPRS-13543 P. 423
4D5 FIRST MT EXPERIMENT FROM RUSSIAN INTO CHINESE. 4D5 JPRS-6D94 P. 28
512 RIMENT IN MACHINE TRANSLATION FROM RUSSIAN TO CHINESE. /FUL ACCOMPLISHMENT OF THE FIRST EXPE 512 JPRS-8D26 P. 51
2D1 ESSING. CHINESE-TO-RUSSIAN MACHINE TRANSLATION IS PROGR 2D1 JPRS-487 P. 31
515 OR MACHINE TRANSLATION AND THE SEMINAR ON SE/ CHRONICLE OF THE MEETINGS OF THE ASSOCIATION F 515 JPRS-8D26 P. 57
391 CHRONICLE. 391 JPRS-3758 P. 76
764 THEORY OF INSTRUCTION FOR ONE CLASS OF DISCRETE PERCEPTRONS. 764 JPRS-13725
522 L DIAGRAM FOR SOLVING PROBLEMS CONCERNING ONE CLASS OF INFORMATION. A STRUCTURA 522 JPRS-8372 P. 1
787 REDUCING THE NUMBER OF STATES OF A CLASS OF SEQUENTIAL MACHINES. 787 JPRS-14195
531 A SYSTEM OF RECORDING AND SEARCHING CLASSES OF CHEMICAL COMPOUNDS. 531 JPRS-8479 P. 55
62D NCTIONS IN ALPHABETS BY ALGORITHMS OF SEVERAL CLASSES. CONCERNING THE REALIZATION OF FU 62D JPRS-1D865
523 FORMATION REQUESTS IN ELECTRICAL ENGINEERING. CLASSIFICATION AND BIBLIOGRAPHIC ANALYSIS OF IN 523 JPRS-8372 P. 6
716 THE PROBLEM OF BUILDING A READING DEVICE). CLASSIFICATION OF A TABLE OF RUSSIAN GRAPHEMES (ON 716 JPRS-13256
57D PROBLEMS IN THE CLASSIFICATION OF RUSSIAN HOMONYMS. 57D JPRS-8994
236 STRUCTION. CLASSIFICATION OF SIMPLE SENTENCES AND CODE CON 236 JPRS-893 P. 27
386 CODE CONSTRUCTION AND CLASSIFICATION OF SIMPLE SENTENCES. 386 JPRS-3758 P. 23
393 IN VIETNAMESE. CLASSIFICATION PRINCIPLES FOR SIMPLE SENTENCES 393 JPRS-3796 P. 1
6D1 POSSIBILITIES OF APPLYING S. R. RANGANATHAN'S CLASSIFICATION SYSTEM TO THE ORGANIZATION AND 6D1 JPRS-1D597 P. 21
326 NDENT ANALYSIS OF THE STRUCTURE OF THE SIMPLE CLAUSE IN ENGLISH. FIRST STAGE OF AN INDEPE 326 JPRS-215D P. 166
158 SYNTHESIS OF THE RUSSIAN CLAUSE. 158 JPRS-241 P. 59
173 ED WITH THE ANALYSIS OF COMPLEX SENTENCES AND CLAUSES WITH SIMILAR MEMBERS. /PROBLEMS CONNECT 173 JPRS-241 P. 75
748 ICATORS FOR WORDS AND SYNTACTICAL ANALYSIS OF CLAUSES. SYNTACTICAL INO 748 JPRS-13543 P. 315
299 INVARIANT SIGNS OF STOP (PLOSIVE) SOUNDS IN CLIPPED SPEECH SIGNALS. THE DETERMINATION OF 299 JPRS-1029
755 LATION FROM CHINESE TO RUSSIAN.AN ANALYSIS OF CLOSED CONSTRUCTIONS IN BINARY MACHINE TRANS 755 JPRS-13543 P. 423
333 ON CODE AND LANGUAGE. 333 JPRS-33DD P. 11
386 SENTENCES. CODE CONSTRUCTION AND CLASSIFICATION OF SIMPLE 386 JPRS-3758 P. 23
236 CLASSIFICATION OF SIMPLE SENTENCES AND CODE CONSTRUCTION. 236 JPRS-893 P. 27
681 ACHINE LANGUAGES AS AN ELEMENT OF A UNIVERSAL CODE OF SCIENCE. M 681 JPRS-13172
684 A STUDY OF RELATIONS BETWEEN CODES OF VARIOUS RANKS. 684 JPRS-13173 P. 36
277 THE THEORY OF EQUIVALENT CODES. 277 JPRS-893 P. 9B
114 ONVERSION OF COMMUNICATIONS AND CONVERSION OF CODES. C 114 JPRS-241 P. 6
733 HOLOGICAL ANALYSIS OF TH/ SPECIAL FEATURES OF CODING AND PROGRAMMING AN ALGORITHM FOR MORP 733 JPRS-13514 P. 33D
154 GLOSSARY STRUCTURE AND INFORMATION CODING FOR MACHINE TRANSLATION. 154 JPRS-241 P. 56
272 LANGUAGES (WITH LIMITS IMPOSED ON/ OPTIMUM CODING OF COMPLEX ITEMS IN REAL AND INFORMATION 272 JPRS-893 P. 9I
317 ON THE STRUCTURE OF A DICTIONARY AND THE CODING OF INFORMATION FOR MACHINE TRANSLATION. 317 JPRS-215D P. 41
492 AUTOMATIC LEXICAL CODING OF MESSAGES. 492 JPRS-6732 P. 23
16D OF MACHINE TRANSLATION METHODS TO THE LEXICAL CODING OF TELEGRAPHIC AND TELEPHONIC COMMUNICAT 16D JPRS-241 P. 62
673 AN INFORMATION LANGUAGE BASED ON STEP-BY-STEP CODING OF THE MEANINGS OF TERMS. /A VOCABULARY OF 673 JPRS-13D56
718 SIS. THE CODING OF WORDS FOR AN ALGORITHM OF SYNTACTIC ANALY 71B JPRS-13321
613 CODING THE VIETNAMESE SYLLABLE. 613 JPRS-1D8D8 P. 1
542 SOME PROBLEMS IN CODING THE VOWEL SOUNDS OF SPEECH. 542 JPRS-B929 P. 6
359 SOME PROBLEMS IN THE THEORY OF CODING. 359 JPRS-359B P. 1
623 ON ALPHABETIC CODING. 623 JPRS-11D88 P. 6
573 ROCESSING REQUIREMENTS FRAME OF REFERENCE FOR COLLABORATION WITH G.E.D.S.H. INFORMATION-P 573 JPRS-1D361 P. 55
54D STATISTICS OF TWO-LETTER COMBINATIONS IN LITERARY GEORGIAN. 54D JPRS-8929 P. 4
362 STATISTICAL ANALYSIS OF THREE-LETTER COMBINATIONS IN RUSSIAN TEXT. 362 JPRS-3598 P. 31

617 ONE METHOD FOR DESCRIBING WORD COMBINATIONS OF STANDARDIZED RUSSIAN. 617 JPRS-10814 P. 1
807 TEXT MATTER. DETERMINING LETTER COMBINATIONS THROUGH STATISTICAL ANALYSIS OF 807 JPRS-15839 P. 20
667 ATIC SYNTA/ TWO OPERATORS FOR PROCESSING WORD COMBINATIONS WITH ' STRONG GOVERNMENT ' (FOR AUTOM 667 JPRS-12441
272 MATION LANGUAGES (WITH LIMITS IMPOSED ON THE COMBINING POWER OF THE ELEMENTS). /L AND INFOR 272 JPRS-893 P. 91
486 A FEW COMMENTS ON BELA ZENTAI'S ARTICLE. 486 JPRS-6680 P. 34
213 ANSLATION SET UP IN ARMENIA. COMMISSION ON APPLIED LINGUISTICS AND MACHINE TR 213 JPRS-662 P. 6
184 COMMITTEE FOR APPLIED LINGUISTICS. 184 JPRS-319 P. 21
197 MEETING OF THE COMMITTEE ON APPLIED LINGUISTICS. 197 JPRS-487 P. 25
354 JANUARY 1959 PLENUM OF THE COMMITTEE ON APPLIED LINGUISTICS. 354 JPRS-3597 P. 3
560 C TRANSLATION AND AUTOMATIC DOCUMENTATION. COMMON POINTS BETWEEN THE PROBLEMS OF AUTOMATI 560 JPRS-8938 P. 46
203 SOVIETS SAY MACHINE TRANSLATORS TO BE COMMON THING BY 1960. 203 JPRS-487 P. 33
346 COMMUNICATION THEORY. 346 JPRS-3502 P. 40
114 CONVERSION OF COMMUNICATIONS AND CONVERSION OF CODES. 114 JPRS-241 P. 6
360 NCH CARD MACHINES FOR STATISTICAL ANALYSIS OF COMMUNICATIONS. METHOD OF USING PU 360 JPRS-3598 P. 11
160 LEXICAL CODING OF TELEGRAPHIC AND TELEPHONIC COMMUNICATIONS. /INE TRANSLATION METHODS TO THE 160 JPRS-241 P. 62
529 MICAL ABSTRACT/ THE PROBLEM OF THE AUTOMATIC COMPILATION OF ORGANIC COMPOUND INDEXES FOR CHE 529 JPRS-8479 P. 9
712 CT JO/ THE USE OF BULL PUNCH CARD MACHINES TO COMPILE ISSUE-BY-ISSUE AND ANNUAL INDEXES TO ABSTRA 712 JPRS-13253
287 MANTIC WORDS FOR MACHINE TRANS/ PRINCIPLES IN COMPILING A GERMAN-RUSSIAN DICTIONARY OF POLYSE 287 JPRS-925 P. 72
151 NTS FOR MACHINE TRANSLATION. PRINCIPLES IN COMPILING A GERMAN-RUSSIAN GLOSSARY OF POLYSEMA 151 JPRS-241 P. 50
446 -STEM VERBS IN CONNECTION WITH THE PROBLEM OF COMPILING A STEM DICTIONARY FOR MACHINE TRANSLA 446 JPRS-6494 P. 1
366 SOME PROCEDURAL PROBLEMS IN COMPILING FREQUENCY DICTIONARY AND TEXT). 366 JPRS-3599 P. 16
138 SOME GENERAL PRINCIPLES IN COMPILING GLOSSARIES FOR MACHINE TRANSLATION. 138 JPRS-241 P. 36
633 CL/ AN ALGORITHM FOR CONVERTING THE NAME OF A COMPLEX COMPOUND PRESENTED IN RATIONAL NOMEN 633 JPRS-11483 P. 126
272 (WITH LIMITS IMPOSED ON/ OPTIMUM CODING OF COMPLEX ITEMS IN REAL AND INFORMATION LANGUAGES 272 JPRS-893 P. 91
622 ON THE TRANSFORMATION OF PROGRAMS FOR SOLVING COMPLEX LOGICAL PROBLEMS TO AN OPTIMAL FORM. 622 JPRS-11088 P. 1
566 ANALYSIS OF THE COMPLEX SENTENCE (GERMAN). 566 JPRS-8966
173 SOME PROBLEMS CONNECTED WITH THE ANALYSIS OF COMPLEX SENTENCES AND CLAUSES WITH SIMILAR MEMB 173 JPRS-241 P. 75
677 PROGRAM FOR THE ANALYSIS OF PHRASEOLOGICAL COMPLEXES. 677 JPRS-13134
609 OF WHOLE NUMBER DESIGNATIONS FROM 1 TO 999999. COMPOSITION OF ALGORITHMS FOR THE TRANSLATION 609 JPRS-10777 P. 1
640 STRACT AUTOMATON BY AN EVENT ON AN ELECTRONIC COMPUTER PRESENTED TO IT. THE SYNTHESIS OF AN AB 640 JPRS-11699
217 LEM-1 SMALL GENERAL-PURPOSE DIGITAL COMPUTER USING MAGNETIC (FERRITE) ELEMENTS. 217 JPRS-705
399 AUTOMATIC TRANSLATION BY THE ' YAMATO ' COMPUTER. 399 JPRS-3948
371 TAX PATTERNS IN ENGLISH STUDIED BY ELECTRONIC COMPUTER. SYN 371 JPRS-3599 P. 50
310 ATIONS FROM FRENCH INTO RUSSIAN ON THE STRELA COMPUTER. EXPERIMENTAL TRANSL 310 JPRS-1145 P. 18
726 Y SUCCESSIVE DIAGONALIZATION ON AN ELECTRONIC COMPUTER. /NATION OF EIGENVALUES OF MATRICES B 726 JPRS-13514 P. 1
733 ANALYSIS OF THE RUSSIAN LANGUAGE ON THE KIEV COMPUTER. /NG AN ALGORITHM FOR MORPHOLOGICAL 733 JPRS-13514 P. 330
588 YAN MANUSCRIPTS WITH THE AID OF AN ELECTRONIC COMPUTER. ALGORITHMS AND PROGRAMS. /ANCIENT MA 588 JPRS-10508 P. 6
587 YAN MANUSCRIPTS WITH THE AID OF AN ELECTRONIC COMPUTER. METHODS. INVESTIGATION OF ANCIENT MA 587 JPRS-10508 P. 1
589 YAN MANUSCRIPTS WITH THE AID OF AN ELECTRONIC COMPUTER. PRELIMINARY RESULTS. /OF ANCIENT MA 589 JPRS-10508 P. 10
275 NG THE CONSTRUCTION OF SPECIALIZED ELECTRONIC COMPUTERS FOR MACHINE TRANSLATION. /ES UNDERLYI 275 JPRS-893 P. 96
591 EFFECTIVENESS OF GENERAL-PURPOSE COMPUTERS FOR TRANSLATION PURPOSES. 591 JPRS-10509
804 USSR IMPROVES COMPUTERS. 804 JPRS-15787
796 ORGANIZING SYSTEMS AND THE ABSTRACT THEORY OF COMPUTERS. SELF- 796 JPRS-14624
727 GEBRAIC-DIFFERENTIAL ALGORITHMS ON ELECTRONIC COMPUTERS. ON THE REALIZATION OF AL 727 JPRS-13514 P. 45
532 THEIR SOLUTION BY MEANS OF ELECTRONIC DIGITAL COMPUTERS. /F PHYSICAL- CHEMICAL ANALYSIS AND 532 JPRS-8479 P. 69
653 A SYSTEM OF INSTRUCTIONS FOR A THREE- ADDRESS COMPUTING AND LOGICAL MACHINE WITH A FLOATING POINT 653 JPRS-11985
279 MACHINE LEM-11 WITH MAGNETIC ELEMENTS AS THE COMPUTING DEVICE OF A GENERAL PURPOSE LOGICAL 279 JPRS-893 P. 101
230 ' TO AN AN/ APPLICATION OF R. L. DOBRUSHIN'S CONCEPT OF AN ' ELEMENTARY GRAMMATICAL CATEGORY 230 JPRS-893 P. 21
248 THE CONCEPT OF EXPRESSION AND SYNTAGMATIC ANALYSIS. 248 JPRS-893 P. 49
125 AN EXPERIMENT TO DEFINE THE CONCEPT OF GRAMMATICAL CATEGORY. 125 JPRS-241 P. 21
143 A LOGICAL ANALYSIS OF THE CONCEPT OF LANGUAGE STRUCTURE. 143 JPRS-241 P. 43
233 ET OF MARKED PHRASES ' IN THE THEORETICAL SET CONCEPT OF O. S. KULAGINA. /THE NOTION OF A ' S 233 JPRS-893 P. 24
305 LOGICAL ANALYSIS OF THE PHONEME CONCEPT. 305 JPRS-1132
413 ETHODOLOGICAL FOUNDATIONS OF S. K. SHAUMYAN'S CONCEPT. M 413 JPRS-6152 P. 7
500 ON SOME NOTIONS OF THE SO-CALLED SET-THEORY CONCEPTION OF LANGUAGE. 500 JPRS-6938 P. 1
123 THE TREATMENT OF CERTAIN CONCEPTS IN STRUCTURALISM. 123 JPRS-241 P. 19
208 ONE METHOD OF DEFINING GRAMMATICAL CONCEPTS ON THE BASIS OF THE THEORY OF SETS. 208 JPRS-646 P. 1
133 A METHOD OF DEFINING GRAMMATICAL CONCEPTS. 133 JPRS-241 P. 31
267 TICS CONNECTED WITH MACHINE SEARCH FOR INFOR/ CONCERNING CERTAIN PROBLEMS OF CHEMICAL LINGUIS 267 JPRS-893 P. 84
423 CONCERNING CONCORDANCES. 423 JPRS-6239 P. 6
522 A STRUCTURAL DIAGRAM FOR SOLVING PROBLEMS CONCERNING ONE CLASS OF INFORMATION. 522 JPRS-8372 P. 1
237 E. CONCERNING ONE MODEL OF A GERMAN SIMPLE SENTENC 237 JPRS-893 P. 28
509 ATE LANGUAGE. THE PROBLEM CONCERNING THE ' GRAMMATICAL ' IN AN INTERMEDI 509 JPRS-8026 P. 15
418 ICAL PROBLEMS OF LINGUISTICS '. CONCERNING THE PROBLEMATIC REPORT ON ' THEORET 418 JPRS-6236 P. 29
620 S BY ALGORITHMS OF SEVERAL CLASSES. CONCERNING THE REALIZATION OF FUNCTIONS IN ALPHABET 620 JPRS-10865
610 ANGUAGE. PROBLEM CONCERNING THE STRUCTURE OF AN INTERMEDIATE L 610 JPRS-10777 P. 11
420 LANGUAGE. CONCERNING WORK ON THE STRUCTURAL ANALYSIS OF 420 JPRS-6236 P. 41
423 CONCERNING CONCORDANCES. 423 JPRS-6239 P. 6
776 INTERVUZ SCIENTIFIC CONFERENCE ON APPLIED LINGUISTICS. 776 JPRS-13761 P. 118
212 SCIENTIFIC AND TECHNICAL CONFERENCE ON CYBERNETICS. 212 JPRS-662 P. 1
379 CONFERENCE ON MACHINE TRANSLATION IN SWEDEN. 379 JPRS-3629 P. 17
297 DOCUMENTS OF THE FIRST ALL-UNION CONFERENCE ON MACHINE TRANSLATION. 297 JPRS-1006
196 CONFERENCE ON MACHINE TRANSLATION. 196 JPRS-487 P. 21
343 E TRANSLATION IN THE USSR (EXPERIENCE AT THE CONFERENCE ON MATHEMATICAL LINGUISTICS IN LENIN 343 JPRS-3502 P. 4
390 ALL-UNION CONFERENCE ON MATHEMATICAL LINGUISTICS. 390 JPRS-3758 P. 66
438 CONFERENCE ON SPEECH STATISTICS. 438 JPRS-6445 P. 1
517 ISTICS. CONFERENCE ON STRUCTURAL AND MATHEMATICAL LINGU 517 JPRS-8132 P. 1
108 STRUCTION OF INFORMATION MACHINES. CONFERENCE ON THE PROBLEM OF DEVELOPMENT AND CON 108 JPRS-68 P. 68
356 T IN TEACHING FOREIGN LANGUAGES. CONFERENCE ON UTILIZATION OF TECHNICAL EQUIPMEN 356 JPRS-3597 P. 8
597 AJDUKIEWICZ-BAR-HILLEL METHOD AND IN TERMS OF CONFIGURATION ANALYSIS. /TRANSLATION BY THE 597 JPRS-10576 P. 42
511 STATISTICAL INVESTIGATION OF GRAMMATICAL CONFIGURATION IN ENGLISH MATHEMATICAL TEXT. 511 JPRS-8026 P. 40
740 TER IN MACHINE TRANS/ A SYSTEM OF INDEPENDENT CONFIGURATIONAL ANALYSIS OF CHINESE TEXT MAT 740 JPRS-13543 P. 165
596 IDENTIFICATION OF CONFIGURATIONS IN THE RUSSIAN SENTENCE. 596 JPRS-10576 P. 30
578 PROGRAM OF CONFLICT. MODEL OF CONFLICT. 578 JPRS-10367 P. 13
578 PROGRAM OF CONFLICT. MODEL OF CONFLICT. 578 JPRS-10367 P. 13
557 AUTOMATIC ANALYSIS (PROGRAMS OF CONFLICTS). 557 JPRS-8938 P. 39
187 EPORTS TO THE SYMPOSIUM AT THE 8TH MENDELEYEV CONGRESS ON GENERAL AND APPLIED CHEMISTRY). /). (R 187 JPRS-331
430 ON THE NOTION OF CONGRUENCE. 430 JPRS-6240 P. 8
388 THE CONJUNCTION I IN MACHINE TRANSLATION. 388 JPRS-3758 P. 52
251 INTO INTERMED/ THE TREATMENT OF COORDINATING CONJUNCTIONS IN TRANSLATING FROM INPUT LANGUAGE 251 JPRS-893 P. 63

474 . ON ' CONNECTED ' SYNTACTIC CONSTRUCTIONS IN RUSSIAN 474 JPQS-6588 P. 14
267 NING CERTAIN PROBLEMS OF CHEMICAL LINGUISTICS CONNECTED WITH MACHINE SEARCH FOR INFORMATION. 267 JPRS-893 P. 84
223 SOME PROBLEMS IN MATHEMATICAL LINGUISTICS CONNECTED WITH MACHINE TRANSLATION. 223 JPRS-893 P. 1
128 LINGUISTIC PROBLEMS CONNECTED WITH POETRY TRANSLATION. 128 JPRS-241 P. 24
173 S AND CLAUSES WITH SIMILAR MEM/ SOME PROBLEMS CONNECTED WITH THE ANALYSIS OF COMPLEX SENTENCE 173 JPRS-241 P. 75
142 NATING STEMS IN CONSTRUCTING A/ SOME PROBLEMS CONNECTED WITH THE HANDLING OF VERBS WITH ALTER 142 JPRS-241 P. 42
106 TO RUSSIAN. CERTAIN QUESTIONS OF SYNTAX IN CONNECTION WITH MACHINE TRANSLATION FROM ENGLISH 106 JPRS-68 P. 48
120 A GENERAL THEORY OF TRANSLATION IN CONNECTION WITH MACHINE TRANSLATION. 120 JPRS-241 P. 15
598 THE CONSTRUCTION OF A FORMAL MORPHOLOGY IN CONNECTION WITH MACHINE TRANSLATION. 598 JPRS-10576 P. 50
780 QUESTIONS ON MATHEMATICAL LINGUISTICS IN CONNECTION WITH MACHINE TRANSLATION. 780 JPRS-13790 P. 12
585 LATION/ DESCRIPTION OF RUSSIAN SYNTAGMAS (IN CONNECTION WITH THE CONSTRUCTION OF A MACHINE TRANS 585 JPRS-10429
259 PREPOSITIONAL PHRASES IN RUSSIAN SENTENCES IN CONNECTION WITH THE CONSTRUCTION OF A STANDARD 259 JPRS-893 P. 75
446 ON THE DISTRIBUTION OF MULTIPLE-STEM VERBS IN CONNECTION WITH THE PROBLEM OF COMPILING A STEM 446 JPRS-6494 P. 1
691 ICAL TEXTS. ESTABLISHMENT OF SYNTACTIC CONNECTIONS FOR FORMULAS IN RUSSIAN MATHEMAT 691 JPRS-13173 P. 203
167 L TEXTS. DETERMINATION OF SYNTACTIC CONNECTIONS FOR FORMULAS IN RUSSIAN MATHEMATICA 167 JPRS-241 P. 68
597 UKIEWICZ-BAR-HILL/ ESTABLISHMENT OF SYNTACTIC CONNECTIONS IN MACHINE TRANSLATION BY THE AJD 597 JPRS-10576 P. 42
746 FORMAL ANAL/ ON ESTABLISHING THE SYNTACTICAL CONNECTIONS OF PREPOSITIONAL PHRASES THROUGH 746 JPRS-13543 P. 289
309 ION MACHINE. THE PROBLEM OF CONSTRUCTING A MACHINE LANGUAGE FOR AN INFORMAT 309 JPRS-1145 P. 1
759 F CHINESE CHARACTERS. AN EXPERIMENT IN CONSTRUCTING A SYSTEM FOR GRAPHIC ANALYSIS O 759 JPRS-13543 P. 503
142 E HANDLING OF VERBS WITH ALTERNATING STEMS IN CONSTRUCTING AN ALGORITHM OF MACHINE TRANSLATIO 142 JPRS-241 P. 42
630 IN MODERN DOCUMENTATION AND POSSIBILITIES OF CONSTRUCTING MATHEMATICAL LOGIC THEORIES OF I 630 JPRS-11483 P. 17
386 ENCES. CODE CONSTRUCTION AND CLASSIFICATION OF SIMPLE SENT 386 JPRS-3758 P. 23
321 RUSSIAN TRANSLATION. CERTAIN PROBLEMS IN THE CONSTRUCTION OF A BURMESE-RUSSIAN ALGORITHM OF 321 JPRS-2150 P. 91
294 TION. THE PRINCIPLES UNDERLYING THE CONSTRUCTION OF A DICTIONARY FOR MACHINE TRANSLA 294 JPRS-992 P. 1
598 TION WITH MACHINE TRANSLATION. THE CONSTRUCTION OF A FORMAL MORPHOLOGY IN CONNEC 598 JPRS-10576 P. 50
585 OF RUSSIAN SYNTAGMAS (IN CONNECTION WITH THE CONSTRUCTION OF A MACHINE TRANSLATION ALGORITHM). 585 JPRS-10429
259 S IN RUSSIAN SENTENCES IN CONNECTION WITH THE CONSTRUCTION OF A STANDARD LANGUAGE. /AL PHRASE 259 JPRS-893 P. 75
735 TE LANGUAGE. ONE APPROACH TO THE CONSTRUCTION OF A VOCABULARY FOR AN INTERMEDIA 735 JPRS-13543 P. 3
449 AMMATICAL ANALYSIS OF THE RUSSIAN LANGUAGE. CONSTRUCTION OF AN ALGORITHM FOR INDEPENDENT GR 449 JPRS-6505 P. 1
253 LEXICAL CORRESPONDENCES (AN APPROACH TO THE CONSTRUCTION OF AN INTERMEDIARY LANGUAGE). /OF 253 JPRS-893 P. 68
146 PRINCIPLES IN THE CONSTRUCTION OF ELECTRIC READING DEVICES. 146 JPRS-241 P. 45
327 PRINCIPLE OF CONSTRUCTION OF ELECTRIC READING DEVICES. 327 JPRS-2150 P. 171
108 CONFERENCE ON THE PROBLEM OF DEVELOPMENT AND CONSTRUCTION OF INFORMATION MACHINES. 108 JPRS-68 P. 68
246 THE CONSTRUCTION OF MATHEMATICAL LANGUAGE MODELS. 246 JPRS-893 P. 43
745 VERBS. ON THE CONSTRUCTION OF RULES FOR ANALYZING ENGLISH 745 JPRS-13543 P. 267
752 THESIS OF RUSSIAN TEXT MATTER. THE CONSTRUCTION OF SENTENCES IN INDEPENDENT SYN 752 JPRS-13543 P. 376
275 S FOR MACHINE TRAN/ PRINCIPLES UNDERLYING THE CONSTRUCTION OF SPECIALIZED ELECTRONIC COMPUTER 275 JPRS-893 P. 96
236 CLASSIFICATION OF SIMPLE SENTENCES AND CODE CONSTRUCTION. 236 JPRS-893 P. 27
556 PRACTICAL EXERCISES IN DIAGRAM CONSTRUCTION. 556 JPRS-893B P. 37
249 FOR MACHINE TRANSLATION AND PRINCIPLES OF ITS CONSTRUCTION. INTERMEDIARY LANGUAGE 249 JPRS-893 P. 52
755 FROM CHINESE TO RUSSIAN.AN ANALYSIS OF CLOSED CONSTRUCTIONS IN BINARY MACHINE TRANSLATION 755 JPRS-13543 P. 423
474 ON ' CONNECTED ' SYNTACTIC CONSTRUCTIONS IN RUSSIAN. 474 JPQS-6588 P. 14
783 FORMAL ANALYSIS OF PASSIVE CONSTRUCTIONS IN THE RUSSIAN LANGUAGE. 783 JPRS-13790 P. 54
244 GENERALIZATION AND POSTULATION OF CONSTRUCTS IN STUDYING LANGUAGE STRUCTURE. 244 JPRS-893 P. 37
646 . SOME CONSTRUCTS IN THE LOGIC OF SINGLE-VALUED PREDICATES 646 JPRS-11779
139 SOME ANALOGIES TO THE PROBLEMS AND METHODS OF CONTEMPORARY THEORETICAL LINGUISTICS IN ANCIENT 139 JPRS-241 P. 37
247 ACHINE TRA/ MACHINE LANGUAGE AND THE PLANE OF CONTENT (ON WAYS OF CREATING A SELF-TEACHING M 247 JPRS-893 P. 44
367 DETERMINING ASPECT OF THE RUSSIAN VERB FROM CONTEXT (IN MACHINE TRANSLATION). 367 JPRS-3599 P. 29
611 OMONYMY ON THE BASIS OF FORMAL DESCRIPTION OF CONTEXT IN MODERN ENGLISH. /OF SYNTACTICAL H 611 JPRS-10777 P. 38
131 THE LOGICAL NATURE OF CONTEXT. 131 JPRS-241 P. 27
769 ON THE FORMALIZATION OF CONTEXT. 769 JPRS-13761 P. 57
424 THE PROBLEM OF TRUE POLYSEMIA AND THE CONTEXTUAL PARAMETER METHOD. 424 JPRS-6239 P. 10
692 USSIAN NOUNS. ON REDUNDANCY OF CERTAIN CONTRAPOSITIONS IN THE INFLEXION SYSTEM OF R 692 JPRS-13173 P. 213
813 A MACHINE CAPABLE OF CONVERSING. 813 JPRS-17184 P. 1
742 SIS OF CHINESE TEXT MATTER. ON SOLVING CONVERSION HOMONYMY DURING INDEPENDENT ANALY 742 JPRS-13543 P. 217
261 CAL ANALYSIS OF ENGLISH SENTENCE STRUCTURE IN CONVERSION INTO AN INTERMEDIARY LANGUAGE. /MATI 261 JPRS-893 P. 76
114 CONVERSION OF COMMUNICATIONS AND CONVERSION OF CODES. 114 JPRS-241 P. 6
114 ODES. CONVERSION OF COMMUNICATIONS AND CONVERSION OF C 114 JPRS-241 P. 6
262 LANGUAGE (ON GERMAN MATERIAL). CONVERSION OF INPUT LANGUAGE INTO INTERMEDIARY 262 JPRS-893 P. 78
263 LANGUAGE (ON ARMENIAN MATERIAL). CONVERSION OF INPUT LANGUAGE INTO INTERMEDIARY 263 JPRS-893 P. 78
260 NGUAGE. CONVERSION OF INPUT LANGUAGE TO INTERMEDIARY LA 260 JPRS-893 P. 76
265 LANGUAGE. WORD FORMATION IN CONVERSION OF INTERMEDIARY LANGUAGE INTO OUTPUT 265 JPRS-893 P. 82
633 ESENTED IN RATIONAL NOMENCL/ AN ALGORITHM FOR CONVERTING THE NAME OF A COMPLEX COMPOUND PR 633 JPRS-11483 P. 126
350 OGNITION OF VISIBLE PATTERNS/ THE QUANTITY OF COORDINATE DESCRIPTIONS OF IMAGES IN SYSTEMS FOR REC 350 JPRS-3570
251 NPUT LANGUAGE INTO INTERMED/ THE TREATMENT OF COORDINATING CONJUNCTIONS IN TRANSLATING FROM I 251 JPRS-893 P. 63
595 FORMAL DETERMINATION OF TYPES OF COORDINATION (UND AND ORDER). 595 JPRS-10576 P. 22
665 OF/ STATIC AND IMPULSE PROPERTIES OF FERRITE CORES WITH RECTANGULAR HYSTERESIS LOOPS AND METHODS 665 JPRS-12133
180 UNS AND THE NOUNS FOR WHICH THEY SUBSTITUTE. CORRELATION BETWEEN THIRD PERSON PERSONAL PRONO 180 JPRS-241 P. 82
459 TICULARLY/ THE POWER CHARACTERISTICS AND THE CORRELATION INTERVAL OF STOCHASTIC SIGNALS, PAR 459 JPRS-6543 P. 7
737 MACHINE TRANSLATION AND ESTABLISHING CORRESPONDENCES BETWEEN LANGUAGE SYSTEMS. 737 JPRS-13543 P. 57
253 ON OF AN INTERMEDIAR/ THE TYPOLOGY OF LEXICAL CORRESPONDENCES (AN APPROACH TO THE CONSTRUCTI 253 JPRS-893 P. 68
722 S). TWO OPERATORS FOR ESTABLISHING CORRESPONDENCES (FOR AUTOMATIC SYNTACTICAL ANALYSI 722 JPRS-13444
751 A TABLE OF TARTAR-RUSSIAN CORRESPONDENCES. 751 JPRS-13543 P. 366
352 INGUISTICS SECTION FUNCTIONS UNDER SCIENTIFIC COUNCIL ON CYBERNETICS. L 352 JPRS-3597 P. 1
629 MACHINE. LOGICAL-MATHEMATICAL PROBLEMS OF CREATING A MACHINE LANGUAGE FOR AN INFORMATION 629 JPRS-11483 P. 2
636 PROBLEMS IN CREATING A MACHINE LANGUAGE FOR GEOMETRY. 636 JPRS-11483 P. 154
631 STRY. PROBLEMS INVOLVED IN CREATING A MACHINE LANGUAGE FOR ORGANIC CHEMI 631 JPRS-11483 P. 42
247 ANGUAGE AND THE PLANE OF CONTENT (ON WAYS OF CREATING A SELF-TEACHING MACHINE TRANSLATOR). 247 JPRS-893 P. 44
315 ON MACHINE. LINGUISTICS PROBLEMS IN THE CREATION OF A MACHINE LANGUAGE FOR AN INFORMATI 315 JPRS-2150 P. 6
582 EMENTARY ALGEBRAIC ANALYSIS OF THE LECERF-IHM CRITERION. EL 582 JPRS-10380 P. 2
179 ESTABLISHMENT OF SYNTACTIC CUES FOR PREPOSITIONAL PHRASES. 179 JPRS-241 P. 80
607 THE CULTURAL SIGNIFICANCE OF MACHINE TRANSLATION. 607 JPRS-10721 P. 31
382 CYBERNETIC ' POLYGLOTS '. 382 JPRS-3731 P. 1
453 LINGUISTIC PROBLEMS OF CYBERNETICS AND STRUCTURAL LINGUISTICS. 453 JPRS-6506
814 CYBERNETICS IN THE SCHOOL. 814 JPRS-17184 P. 29
212 SCIENTIFIC AND TECHNICAL CONFERENCE ON CYBERNETICS. 212 JPRS-662 P. 1
352 SECTION FUNCTIONS UNDER SCIENTIFIC COUNCIL ON CYBERNETICS. LINGUISTICS 352 JPRS-3597 P. 1
514 REVIEW OF SAINT-MARIE'S BOOK OE LA NECESSITE O'UNE LINGUISTIQUE APPLIQUEE. 514 JPRS-8026 P. 56
446 IN CONNECTION WITH THE PROBLEM OF COMP/ SOME DATA ON THE DISTRIBUTION OF MULTIPLE-STEM VERBS 446 JPRS-6494 P. 1
700 OF RUSSIAN LANGUAGE. SOME NUMERICAL DATA PERTAINING TO FORMS OF NOUNS AND VERBS 700 JPRS-13173 P. 339

514 REVIEW OF SAINT-MARIE'S 8DOK DE LA NECESSITE D'UNE LINGUISTIQUE APPLIQUEE. 514 JPRS-8026 P. 56
137 LANGUAGE TRAINING FDR 8LIND DEAF-MUTES. 137 JPRS-241 P. 35
729 AN AUXILIARY STANDARD SU8RDUTINE FOR DE8UGGING A PROGRAM I SPD-1). 729 JPRS-13514 P. 107
791 MACHINE DECIPHERING OF MAYAN MANUSCRIPTS. 791 JPRS-14318 P. 1
274 SDME DECDDING PRD8LEMS IN MACHINE TRANSLATIDN. 274 JPRS-893 P. 96
269 ANGUAGES FDR A MACHINE SEARCH DF THEOREMS AND DEDUCTION DF EFFECTS. /G INFDRMATIDN- LOGICAL L 269 JPRS-893 P. 87
403 ISM. N. I. ZHINKIN DEFENDS DOCTDRAL DISSERTATION ON SPEECH MECHAN 403 JPRS-6094 P. 20
125 AN EXPERIMENT TD DEFINE THE CDNCEPT DF GRAMMATICAL CATEGDRY. 125 JPRS-241 P. 21
208 E THEDRY DF SETS. DNE METHDD DF DEFINING GRAMMATICAL CDNCEPTS ON THE 8ASIS DF TH 208 JPRS-646 P. 1
133 A METHDD DF DEFINING GRAMMATICAL CDNCEPTS. 133 JPRS-241 P. 31
127 D THE THEDRY DF TRANSLAT/ A GENERAL THEDRY DF DEFINITION AND THE POSSI8ILITY DF APPLYING IT T 127 JPRS-241 P. 23
649 STEP LENGTH AND THE FREQUENCY DF RANDDM/ THE DEPENDENCE DF THE TIME DF CALCULATIDN ON THE 649 JPRS-11844 P. 15
617 USSIAN. ONE METHDD FDR DESCRI8ING WDRD CDM8INATIDNS OF STANDARDIZED R 617 JPRS-10814 P. 1
669 8I8LIDGRAPHIC DESCRIPTION AS AN ELEMENT DF INFDRMATION. 669 JPRS-12957
580 NALYSIS. DESCRIPTION DF AN ALGDRITHM FDR INFDRMATIDN A 580 JPRS-10367 P. 62
611 F SYNTACTICAL HDMONYMY ON THE 8ASIS DF FDRMAL DESCRIPTION OF CDNTEXT IN MDDERN ENGLISH. /D 611 JPRS-10777 P. 38
585 TH THE CDNSTRUCTIDN DF A MACHINE TRANSLATIDN/ DESCRIPTION OF RUSSIAN SYNTAGMAS (IN CDNNECTIDN WI 585 JPRS-10429
473 DUN. (CERTAIN PRD8LEMS DF HDMDNYMY IN MACHI/ DESCRIPTION OF THE CASE SYSTEM OF THE RUSSIAN N 473 JPRS-6588 P. 1
655 N MACHINE TRANSLATIDN FROM FRENCH TO RUSSIAN, DESCRIPTION DF THE PROGRAM. D 655 JPRS-12046
743 GRAMMATICAL ANALYSIS FDR MACHINE TRANSLATI/ A DESCRIPTION OF THE STRUCTURE DF INDEPENDENT 743 JPRS-13543 P. 231
311 MATIDN DF THE PRDCESS DF PRDGRAMMIN/ DPERATDR DESCRIPTION DF TRANSLATIDN ALGDRITHMS AND AUTO 311 JPRS-1145 P. 27
365 OPERATDR DESCRIPTION DF TRANSLATIDN ALGDRITHMS. 365 JPRS-3599 P. 5
385 DPERATOR DESCRIPTION DF TRANSLATIDN ALGDRITHMS. 385 JPRS-3758 P. 1
239 DPERATOR DESCRIPTION DF TRANSLATIDN ALGDRITHMS. 239 JPRS-893 P. 33
350 VISI8LE PATTERNS/ THE QUANTITY DF CDDRDINATE DESCRIPTIDNS DF IMAGES IN SYSTEMS FOR RECOGNITIDN DF 350 JPRS-3570
760 PRD8LEMS IN THE DESIGN DF A SCANNING DEVICE. 760 JPRS-13543 P. 514
252 ICTIDNARY. DESIGN PRINCIPLES DF AN INTERMEDIARY LANGUAGE D 252 JPRS-893 P. 66
609 LGDRITHMS FDR THE TRANSLATION DF WHDLE NUMBER DESIGNATIONS FRDM 1 TO 999999.COMPDSITION OF A 609 JPRS-10777 P. 1
726 CCESSIVE DIAGDNALIZATIDN DN AN ELECTRDNI/ THE DETERMINATIDN DF EIGENVALUES DF MATRICES 8Y SU 726 JPRS-13514 P. 1
299 SDUNDS IN CLIPPED SPEECH SIGNALS. THE DETERMINATIDN DF INVARIANT SIGNS DF STDP (PLDSIVE) 299 JPRS-1029
126 THE THEDRY DF PRD8A8ILITY AND DETERMINATIDN OF LINGUISTIC RELATIDNSHIP. 126 JPRS-241 P. 22
465 PRD8A8ILITY DETERMINATIDN DF LINGUISTIC TIME. 465 JPRS-6543 P. 57
167 ULAS IN RUSSIAN MATHEMATICAL TEXTS. DETERMINATIDN DF SYNTACTIC CONNECTIONS FDR FDRM 167 JPRS-241 P. 68
595 AND DRDER). FORMAL DETERMINATIDN DF TYPES DF CDDRDINATIDN (UND 595 JPRS-10576 P. 22
731 ALYSIS OF RUSSIAN TEXT MA/ AN APPRDACH TD THE DETERMINATION DF VER8 STEMS FOR AUTDMATIC AN 731 JPRS-13514 P. 303
460 DUAL VDWEL/ THE USE DF STATISTICAL METHDDS TD DETERMINE THE PHDNETIC MEM8ERSHIP DF AN INDIVI 460 JPRS-6543 P. 21
367 NTEXT (IN MACHINE TRANSLATIDN). DETERMINING ASPECT OF THE RUSSIAN VER8 FRDM CD 367 JPRS-3599 P. 29
807 STICAL ANALYSIS OF TEXT MATTER. DETERMINING LETTER CDM8INATIDNS THRDUGH STATI 807 JPRS-15839 P. 20
124 THE SIGNIFICANCE DF FREQUENCY AS A FACTOR IN DETERMINING THE STYLISTIC FUNCTIONS DF WDRDS. 124 JPRS-241 P. 20
490 SYSTEM AND THE USE IN LINGUISTICS OF METHDDS DEVELDPED FOR DTHER SCIENCES. /N THE SCIENTIFIC 490 JPRS-6732 P. 1
108 INES. CDNFERENCE DN THE PRDBLEM OF DEVELDPMENT AND CDNSTRUCTIDN DF INFORMATION MACH 108 JPRS-68 P. 68
189 SDVIET DEVELDPMENT IN MACHINE TRANSLATIDN. 189 JPRS-335
278 LANGUAGE SIGNS. FACTDRS PERTAINING TD THE DEVELDPMENT DF A LANGUAGE AND THE FREQUENCY DF 278 JPRS-893 P. 99
606 ANALYSIS AND DEVELDPMENT OF A LINGUISTIC PATTERN. 606 JPRS-10721 P. 14
240 ANGUAGE IN THE EXPERIMENTAL LA8DRATDRY FOR M/ DEVELDPMENT DF A SYMBOLIC MACHINE TRANSLATION L 240 JPRS-893 P. 34
673 AGE 8ASED ON STEP-8Y-ST/ AN EXPERIMENT IN THE DEVELDPMENT OF A VDCA8ULARY OF AN INFDRMATIDN LANGU 673 JPRS-13056
340 GUISTICS. ASSDCIATIDN FDR THE STUDY AND DEVELDPMENT OF AUTDMATIC TRANSLATIDN AND APPLIED LIN 340 JPRS-3474
276 MATIDN. INVESTIGATIDN DF THE PRINCIPLES AND DEVELDPMENT OF DEVICES FDR DRAL DUTPUT DF INFDR 276 JPRS-893 P. 97
494 HDDS IN LANGUAGE RESEARCH. THE DEVELDPMENT DF STRUCTURAL AND MATHEMATICAL MET 494 JPRS-6732 P. 42
441 HDDS DF LANGUAGE RESEARCH. DN THE DEVELDPMENT DF STRUCTURAL AND MATHEMATICAL MET 441 JPRS-6445 P. 18
364 PPLIED LINGUISTICS IN THE SEVEN-YEAR PLAN FDR DEVELDPMENT OF THE NATIONAL ECDNDMY OF THE USSR 364 JPRS-3599 P. 1
455 THE LATEST DEVELDPMENTS IN APPLIED LINGUISTICS. 455 JPRS-6507 P. 1
495 ATISTICS. ENTIRE ISSUE OF YUGDSLAV JDURNAL DEVDTED TD MACHINE TRANSLATIDN AND LANGUAGE ST 495 JPRS-6732 P. 46
426 SSIAN VER8. DEWEZE'S 8DDK DN AUTDMATIC TREATMENT DF THE RU 426 JPRS-6239 P. 18
726 TIDN DF EIGENVALUES OF MATRICES 8Y SUCCESSIVE DIAGDNALIZATIDN DN AN ELECTRDNIC COMPUTER. /NA 726 JPRS-13514 P. 1
556 PRACTICAL EXERCISES IN DIAGRAM CDNSTRUCTIDN. 556 JPRS-8938 P. 37
522 SS OF INFDRMATIDN. A STRUCTURAL DIAGRAM FDR SOLVING PRD8LEMS CONCERNING DNE CLA 522 JPRS-8372 P. 1
579 PRDVISIDNAL INSTRUCTIDNS FDR DIAGRAMMING SCIENTIFIC TEXTS. 579 JPRS-10367 P. 38
498 DN TRANSFDRMATIDNS OF PRDGRAM FLDW DIAGRAMS. 498 JPRS-6868
229 METHDDS OF COMPARING STATISTICAL DICTIDNARIES. 229 JPRS-893 P. 20
285 TRANSLATIDN FR/ 8ASIC CHARACTERISTICS OF THE DICTIDNARY AND GRAMMATICAL RDUTINES FDR MACHINE 285 JPRS-925 P. 36
744 MAN LANGUAGE. THE STRUCTURE DF A DICTIDNARY AND RULES FDR ANALYSIS OF THE GER 744 JPRS-13543 P. 246
366 ME PRDCEDURAL PRD8LEMS IN COMPILING FREQUENCY DICTIDNARY AND TEXT). SD 366 JPRS-3599 P. 16
317 ACHINE TRANSLATIDN. DN THE STRUCTURE OF A DICTIDNARY AND THE CDDING OF INFDRMATIDN FDR M 317 JPRS-2150 P. 41
294 E PRINCIPLES UNDERLYING THE CONSTRUCTION DF A DICTIDNARY FDR MACHINE TRANSLATIDN. TH 294 JPRS-992 P. 1
754 E 8ASIC CHARACTERISTICS OF A JAPANESE-RUSSIAN DICTIDNARY FDR MACHINE TRANSLATIDN. TH 754 JPRS-13543 P. 413
446 NNECTION WITH THE PRD8LEM DF COMPILING A STEM DICTIDNARY FDR MACHINE TRANSLATION. /ER8S IN CO 446 JPRS-6494 P. 1
524 ON A DICTIDNARY DF CHEMICAL CDMPDUNDS. 524 JPRS-8372 P. 11
287 ANS/ PRINCIPLES IN COMPILING A GERMAN-RUSSIAN DICTIDNARY DF PDLYSEMANTIC WDRDS FOR MACHINE TR 287 JPRS-925 P. 72
252 DESIGN PRINCIPLES DF AN INTERMEDIARY LANGUAGE DICTIDNARY. 252 JPRS-893 P. 66
200 THDD DF SELECTING THE REQUIRED WDRDS FROM THE DICTIDNARY. ME 200 JPRS-487 P. 28
468 TEXTS. DN THE RUSSIAN FREQUENCY DICTIDNARY, 8ASED DN MATERIAL FRDM MATHEMATICS 468 JPRS-6543 P. 86
436 WHAT IS THE DIFFERENCE 8ETWEEN SIGN SYSTEMS. 436 JPRS-6347 P. 26
603 MULTIPLICATIVE PRDCESSES, STDCHASTIC DIFFERENTIAL EQUATIDNS, AND APPLICATIDNS. 603 JPRS-10679
217 LEM-1 SMALL GENERAL-PURPDSE DIGITAL CDMPUTER USING MAGNETIC (FERRITE) ELEMENTS. 217 JPRS-705
532 SIS AND THEIR SDLUTION 8Y MEANS OF ELECTRONIC DIGITAL COMPUTERS. /F PHYSICAL- CHEMICAL ANALY 532 JPRS-8479 P. 69
651 SOME PRO8LEMS OF SYNTHESIS FOR AUTOMATIC DIGITAL MACHINES. 651 JPRS-11911
373 F ARTICLES DN MACHINE TRANSLATION AND RELATED DISCIPLINES, 1957-1958. 8I8LIOGRAPHY O 373 JPRS-3599 P. 55
764 THEORY OF INSTRUCTION FOR ONE CLASS OF DISCRETE PERCEPTRONS. 764 JPRS-13725
440 SYMPOSIUM ON PRO8LEMS OF SPEECH DISCRIMINATION. 440 JPRS-6445 P. 15
403 N. I. ZHINKIN DEFENDS DOCTORAL DISSERTATION ON SPEECH MECHANISM. 403 JPRS-6094 P. 20
732 TYPES OF STEMS IN THE RUSSIAN LANGUAGE (FOR DISTINCTION OF HDMONYMY OF MDRPHEMES DURING 732 JPRS-13514 P. 313
762 EXPERIMENTS IN TRAINING A MACHINE TO DISTINGUISH VISUAL SHAPES. 762 JPRS-13694
747 H AN ADJECTIVA/ AN APPROACH TO THE PRO8LEM OF DISTINGUISHING FORMS ENDING IN -O (-E) WIT 747 JPRS-13543 P. 301
209 FROM ENGLISH INTO RUSSIAN. PRO8LEMS IN DISTINGUISHING HDMONYMS IN MACHINE TRANSLATION 209 JPRS-646 P. 19
378 VARIOUS TYPES OF HOMONYMS AND METHODS OF DISTINGUISHING THEM IN MACHINE TRANSLATION. 378 JPRS-3629 P. 11
541 PROCESS OF DISTRI8UTION OF LETTERS IN WORDS FOR GEORGIAN. 541 JPRS-8929 P. 5
446 DN WITH THE PRO8LEM OF COMP/ SOME DATA ON THE DISTRI8UTION OF MULTIPLE-STEM VER8S IN CONNECTI 446 JPRS-6494 P. 1
461 UTTERANCE OF RUSSIAN/ STATISTICS ON THE TIME DISTRI8UTION OF SEGMENTS OF THE CHARACTERISTIC 461 JPRS-6543 P. 31
552 ON THE STATISTICAL LAWS OF LINGUISTIC DISTRI8UTIONS. 552 JPRS-8938 P. 23

230 CAL CATEGORY ' TO AN AN/ APPLICATION OF R. L.
403 N. I. ZHINKIN DEFENDS
630 NG MATHEMATICAL LOGIC/ BASIC TRENDS IN MODERN
554 FORMULATION OF A
558 THE ' L'UNITE '
545 HISTORICAL NOTES ABOUT THE SYSTEMS OF
525 AN APPRDACH TO THE PRDBLEMS OF
561 FULLY AUTOMATIC
56D OBLEMS OF AUTOMATIC TRANSLATION AND AUTOMATIC
555 ANALYSIS AND SELECTION OF
297 NE TRANSLATION.
625 RUSSIAN LANGUAGE IN MACHINE TRANSLATION WORK
130 METHODS OF BREAKING
462 ESS STOPS AND SPIRANTS AS A FUNCTION OF THEIR
364 VEN-YEAR PLAN FOR DEVELOPMENT OF THE NATIONAL
195 OMATIC TRANSLATION).EXTRACTS FROM THE SECONO
792 LETTER TO THE
221 URGENT TASKS OF SCIENTIFIC RESEARCH AND
591 SLATION PURPOSES.
726 IZATION ON AN ELECTRONI/ THE DETERMINATION OF
564 S.
146 PRINCIPLES IN THE CONSTRUCTION OF
327 PRINCIPLE OF CONSTRUCTION OF
523 IDGRAPHIC ANALYSIS OF INFORMATION REQUESTS IN
640 IS OF AN ABSTRACT AUTOMATON BY AN EVENT ON AN
371 SYNTAX PATTERNS IN ENGLISH STUDIED BY
726 MATRICES BY SUCCESSIVE DIAGONALIZATION ON AN
588 ANCIENT MAYAN MANUSCRIPTS WITH THE AID OF AN
587 ANCIENT MAYAN MANUSCRIPTS WITH THE AID OF AN
589 ANCIENT MAYAN MANUSCRIPTS WITH THE AID OF AN
275 ES UNDERLYING THE CONSTRUCTION OF SPECIALIZED
727 ATION OF ALGEBRAIC-DIFFERENTIAL ALGORITHMS ON
532 MICAL ANALYSIS AND THEIR SOLUTION BY MEANS OF
809 NEW
496 TRANSLATION BY AN
145 ALGORITHM FOR TRANSLATING FRENCH INTO RUSSIAN
681 MACHINE LANGUAGES AS AN
669 BIBLIOGRAPHIC DESCRIPTION AS AN
582 M CRITERION.
230 LICATION OF R. L. DOBRUSHIN'S CONCEPT OF AN '
272 LIMITS IMPOSED ON THE COMBINING POWER OF THE
279 GENERAL PURPOSE MACHINE LEM-11 WITH MAGNETIC
243 THE PLACE OF INFORMATION-CARRYING
324 AMESE-RUSSIAN ALGORITHM OF MACHINE TRANSLATI/
551
217 E DIGITAL COMPUTER USING MAGNETIC (FERRITE)
168 NYMY IN ANALYZING ENGLISH TEXTS.
611 SIS OF FORMAL DESCRIPTION OF CONTEXT IN/ THE
671 ITERATU/ A GENERAL INFORMATION LANGUAGE TO BE
737 HINE TRANSLATION AND ESTABLISHING CORRESPONO-
470 STATISTICS ON THE RELATIONSHIP BETWEEN
747 PROACH TO THE PROBLEM OF DISTINGUISHING FORMS
537 REPLY TO AN
164 ORITHM FOR TRANSLATING ENGLISH TEXTS ON RADIO
458 ESTIGATION OF SPEECH. THE
523 NALYSIS OF INFORMATION REQUESTS IN ELECTRICAL
774 CAMBRIDGE LANGUAGE RESEARCH UNIT, CAMBRIDGE,
14D THE FREQUENCY OF LEXICAL UNITS IN
150 THE PROGRAMMING OF TRANSLATION FROM
170 AN ALGORITHM OF MACHINE TRANSLATION FROM
2D9 GUISHING HOMONYMS IN MACHINE TRANSLATION FROM
285 MATICAL ROUTINES FOR MACHINE TRANSLATION FROM
696 OF AN INTERM/ ON ALGORITHM OF ANALYSIS OF THE
444 AN ALGORITHM FOR TRANSLATING FROM THE
698 SYNTACTIC ANALYSIS OF PREPOSITIONAL GROUPS IN
511 INVESTIGATION OF GRAMMATICAL CONFIGURATION IN
261 N INT/ THE PROBLEM OF GRAMMATICAL ANALYSIS OF
371 SYNTAX PATTERNS IN
697 WITH HOMONYMY OF PARTS OF SPEECH IN ANALYZING
164 . AN ALGORITHM FOR TRANSLATING
168 HOLOGICAL AND SYNTACTIC HOMONYMY IN ANALYZING
106 X IN CONNECTION WITH MACHINE TRANSLATION FROM
745 ON THE CONSTRUCTION OF RULES FOR ANALYZING
326 YSIS OF THE STRUCTURE OF THE SIMPLE CLAUSE IN
611 IS OF FORMAL DESCRIPTION OF CONTEXT IN MODERN
152 OF THE GLOSSARY AND GRAMMATICAL PROGRAMS FOR
704 ACHINE. EXPERIMENTAL
495 CHINE TRANSLATION AND LANGUAGE STATISTICS.
603 IPLICATIVE PROCESSES, STOCHASTIC DIFFERENTIAL
809 NEW ELECTRONIC
356 CONFERENCE ON UTILIZATION OF TECHNICAL
277 THE THEORY OF
774 CAMBRIDGE LANGUAGE RESEARCH UNIT, CAMBRIDGE,/
401 OROS I AN EXPERIMENT IN TRANSFORMATION A/ THE
691 ORMULAS IN RUSSIAN MATHEMATICAL TEXTS.
597 HINE TRANSLATION BY THE AJDUKIEWICZ-BAR-HILL/
179 AL PHRASES.
199 LANGUAGES. MACHINE TRANSLATION AND THE
640 THE SYNTHESIS OF AN ABSTRACT AUTOMATON BY AN
556 PRACTICAL

DOBRUSHIN'S CONCEPT OF AN ' ELEMENTARY GRAMMATI 230 JPRS-893 P. 21
DOCTORAL DISSERTATION ON SPEECH MECHANISM. 403 JPRS-6D94 P. 20
DOCUMENTATION AND POSSIBILITIES OF CONSTRUCTI 630 JPRS-11483 P. 17
DOCUMENTATION SYSTEM. 554 JPRS-8938 P. 29
DOCUMENTATION SYSTEM. 558 JPRS-8938 P. 43
DOCUMENTATION. 545 JPRS-8938 P. 4
DOCUMENTATION. 525 JPRS-8372 P. 16
DOCUMENTATION. 561 JPRS-8938 P. 48
DOCUMENTATION. COMMON POINTS BETWEEN THE PR 560 JPRS-8938 P. 46
DOCUMENTS IN THE HUMANITIES. 555 JPRS-8938 P. 33
DOCUMENTS OF THE FIRST ALL-UNION CONFERENCE ON MACHI 297 JPRS-1006
DONE ABROAD. ON THE 625 JPRS-11305
DOWN A SYNTACTIC WHOLE. 130 JPRS-241 P. 26
DURATION. /TISTICS OF THE PERCEPTION OF VOICEL 462 JPRS-6543 P. 36
ECONOMY OF THE USSR. /IED LINGUISTICS IN THE SE 364 JPRS-3599 P. 1
EDITION OF PANOV'S AVTOMATICHESKIY PEREVOD (AUT 195 JPRS-487 P. 1
EDITOR. 792 JPRS-14318 P. 15
EDUCATIONAL WORK IN THE FIELD OF LOGIC. 221 JPRS-863
EFFECTIVENESS OF GENERAL-PURPOSE COMPUTERS FOR TRAN 591 JPRS-10509
EIGENVALUES OF MATRICES BY SUCCESSIVE DIAGONAL 726 JPRS-13514 P. 1
ELECTRIC MODELING--A NEW DIVISION OF RADIOELECTRONIC 564 JPRS-8950
ELECTRIC READING DEVICES. 146 JPRS-241 P. 45
ELECTRIC READING DEVICES. 327 JPRS-2150 P. 171
ELECTRICAL ENGINEERING. CLASSIFICATION AND BIBL 523 JPRS-8372 P. 6
ELECTRONIC COMPUTER PRESENTED TO IT. THE SYNTHES 640 JPRS-11699
ELECTRONIC COMPUTER. 371 JPRS-3599 P. 50
ELECTRONIC COMPUTER. /NATION OF EIGENVALUES OF 726 JPRS-13514 P. 1
ELECTRONIC COMPUTER. ALGORITHMS AND PROGRAMS. 588 JPRS-10508 P. 6
ELECTRONIC COMPUTER. METHODS. INVESTIGATION OF 587 JPRS-10508 P. 1
ELECTRONIC COMPUTER. PRELIMINARY RESULTS. /OF 589 JPRS-10508 P. 10
ELECTRONIC COMPUTERS FOR MACHINE TRANSLATION. / 275 JPRS-893 P. 96
ELECTRONIC COMPUTERS. ON THE REALIZ 727 JPRS-13514 P. 45
ELECTRONIC DIGITAL COMPUTERS. /F PHYSICAL- CHE 532 JPRS-8479 P. 69
ELECTRONIC EQUIPMENT FOR THE PRINTING INDUSTRY. 809 JPRS-16292
ELECTRONIC MACHINE. 496 JPRS-6732 P. 48
ELECTRONICALLY. AN 145 JPRS-241 P. 45
ELEMENT OF A UNIVERSAL CODE OF SCIENCE. 681 JPRS-13172
ELEMENT OF INFORMATION. 669 JPRS-12957
ELEMENTARY ALGEBRAIC ANALYSIS OF THE LECERF-IH 582 JPRS-10380 P. 2
ELEMENTARY GRAMMATICAL CATEGORY ' TO AN ANALYSI 230 JPRS-893 P. 21
ELEMENTS). /L AND INFORMATION LANGUAGES I WITH 272 JPRS-893 P. 91
ELEMENTS AS THE COMPUTING DEVICE OF A GENERAL 279 JPRS-893 P. 101
ELEMENTS IN A WORD. 243 JPRS-893 P. 36
ELEMENTS OF INDEPENDENT ANALYSIS IN THE VIETN 324 JPRS-2150 P. 154
ELEMENTS OF MATHEMATICAL LINGUISTICS. 551 JPRS-8938 P. 18
ELEMENTS. LEM-1 SMALL GENERAL-PURPOS 217 JPRS-705
ELIMINATION OF MORPHOLOGICAL AND SYNTACTIC HOMO 168 JPRS-241 P. 69
ELIMINATION OF SYNTACTICAL HOMONYMY ON THE BA 611 JPRS-10777 P. 38
EMPLOYED IN AN EXPERIMENTAL MECHANIZED SYSTEM FOR L 671 JPRS-13055
ENCES BETWEEN LANGUAGE SYSTEMS. MAC 737 JPRS-13543 P. 57
ENDING AND GENDER OF FRENCH NOUNS. 470 JPRS-6543 P. 104
ENDING IN -O (-E) WITH AN ADJECTIVAL STEM 747 JPRS-13543 P. 301
ENEMY. 537 JPRS-8865
ENGINEERING INTO RUSSIAN. AN ALG 164 JPRS-241 P. 67
ENGINEERING SIGNIFICANCE OF THE STATISTICAL INV 458 JPRS-6543 P. 2
ENGINEERING. CLASSIFICATION AND BIBLIOGRAPHIC A 523 JPRS-8372 P. 6
ENGLAND, JUNE 1959. /HINE TRANSLATION BY THE 774 JPRS-13761 P. 1D2
ENGLISH GEOLOGICAL LITERATURE. 140 JPRS-241 P. 39
ENGLISH INTO RUSSIAN. 150 JPRS-241 P. 50
ENGLISH INTO RUSSIAN. 170 JPRS-241 P. 71
ENGLISH INTO RUSSIAN. PROBLEMS IN OISTIN 209 JPRS-646 P. 19
ENGLISH INTO RUSSIAN. /THE DICTIONARY AND GRAM 285 JPRS-925 P. 36
ENGLISH LANGUAGE (FOR TRANSLATION BY MEANS 696 JPRS-13173 P. 281
ENGLISH LANGUAGE INTO RUSSIAN. 444 JPRS-6492 P. 41
ENGLISH LANGUAGE. 698 JPRS-13173 P. 314
ENGLISH MATHEMATICAL TEXT. STATISTICAL 511 JPRS-8026 P. 40
ENGLISH SENTENCE STRUCTURE IN CONVERSION INTO A 261 JPRS-893 P. 76
ENGLISH STUDIED BY ELECTRONIC COMPUTER. 371 JPRS-3599 P. 50
ENGLISH TEXT. WORD TREATMENT 697 JPRS-13173 P. 305
ENGLISH TEXTS ON RADIO ENGINEERING INTO RUSSIAN 164 JPRS-241 P. 67
ENGLISH TEXTS. ELIMINATION OF MORP 168 JPRS-241 P. 69
ENGLISH TO RUSSIAN. CERTAIN QUESTIONS OF SYNTA 106 JPRS-68 P. 48
ENGLISH VERBS. 745 JPRS-13543 P. 267
ENGLISH. FIRST STAGE OF AN INDEPENDENT ANAL 326 JPRS-2150 P. 166
ENGLISH. /OF SYNTACTICAL HOMONYMY ON THE BAS 611 JPRS-10777 P. 38
ENGLISH-RUSSIAN MACHINE TRANSLATION. /FEATURES 152 JPRS-241 P. 51
ENGLISH-TO-RUSSIAN TRANSLATIONS ON THE ' STRELA ' M 704 JPRS-13195
ENTIRE ISSUE OF YUGOSLAV JOURNAL DEVOTED TO MA 495 JPRS-6732 P. 46
EQUATIONS, AND APPLICATIONS. MULT 603 JPRS-10679
EQUIPMENT FOR THE PRINTING INDUSTRY. 809 JPRS-16292
EQUIPMENT IN TEACHING FOREIGN LANGUAGES. 356 JPRS-3597 P. 8
EQUIVALENT CODES. 277 JPRS-893 P. 98
ESSAYS ON AND IN MACHINE TRANSLATION BY THE 774 JPRS-13761 P. 102
ESTABLISHMENT OF DERIVATIVE RELATIONS BETWEEN W 401 JPRS-6094 P. 1
ESTABLISHMENT OF SYNTACTIC CONNECTIONS FOR F 691 JPRS-13173 P. 203
ESTABLISHMENT OF SYNTACTIC CONNECTIONS IN MAC 597 JPRS-10576 P. 42
ESTABLISHMENT OF SYNTACTIC CUES FOR PREPOSITION 179 JPRS-241 P. 80
ESTABLISHMENT OF SYSTEMS OF AGREEMENTS BETWEEN 199 JPRS-487 P. 27
EVENT ON AN ELECTRONIC COMPUTER PRESENTED TO IT. 640 JPRS-11699
EXERCISES IN DIAGRAM CONSTRUCTION. 556 JPRS-8938 P. 37

553 PRACTICAL EXERCISES IN LINGUISTICS. 553 JPRS-8938 P. 27
343 NGUISTICS/ MACHINE TRANSLATION IN THE USSR (EXPERIENCE AT THE CONFERENCE ON MATHEMATICAL LI 343 JPRS-3502 P. 4
405 FIRST MT EXPERIMENT FROM RUSSIAN INTO CHINESE. 405 JPRS-6094 P. 28
759 HIC ANALYSIS OF CHINESE CHARACTERS. AN EXPERIMENT IN CONSTRUCTING A SYSTEM FOR GRAP 759 JPRS-13543 P. 5D3
512 TO C/ SUCCESSFUL ACCOMPLISHMENT OF THE FIRST EXPERIMENT IN MACHINE TRANSLATION FROM RUSSIAN 512 JPRS-8026 P. 51
673 INFORMATION LANGUAGE BASED ON STEP-BY-ST/ AN EXPERIMENT IN THE DEVELOPMENT OF A VOCABULARY OF AN 673 JPRS-13056
401 NT OF DERIVATIVE RELATIONS BETWEEN WORDS (AN EXPERIMENT IN TRANSFORMATION ANALYSIS). /ISHME 401 JPRS-6094 P. 1
767 ERALS ON THE ' URAL ' MACHINE. EXPERIMENT OF MULTILINGUAL TRANSLATION OF NUM 767 JPRS-13761 P. 19
125 CATEGORY. AN EXPERIMENT TO DEFINE THE CONCEPT OF GRAMMATICAL 125 JPRS-241 P. 21
704 ' STRELA ' MACHINE. EXPERIMENTAL ENGLISH-TO-RUSSIAN TRANSLATIONS ON THE 704 JPRS-13195
24D SYMBOLIC MACHINE TRANSLATION LANGUAGE IN THE EXPERIMENTAL LABORATORY FOR MACHINE TRANSLATION 240 JPRS-893 P. 34
671 RAL INFORMATION LANGUAGE TO BE EMPLOYED IN AN EXPERIMENTAL MECHANIZED SYSTEM FOR LITERATURE SEARC 671 JPRS-13055
310 SIAN ON THE STRELA COMPUTER. EXPERIMENTAL TRANSLATIONS FROM FRENCH INTO RUS 310 JPRS-1145 P. 18
178 IAN. EXPERIMENTAL TRANSLATIONS FROM FRENCH INTO RUSS 178 JPRS-241 P. 8D
466 OF SP/ THE USE OF STATISTICAL METHODS IN THE EXPERIMENTAL- PHONETIC AND PSYCHOLOGICAL STUDY 466 JPRS-6543 P. 67
802 AUTOMATIC MACHINES. EXPERIMENTS IN THE RECOGNITION OF SPEECH SOUNDS BY 8D2 JPRS-15754
762 SUAL SHAPES. EXPERIMENTS IN TRAINING A MACHINE TO DISTINGUISH VI 762 JPRS-13694
182 ILITIES OF MACHINE TRANSLATION. EXPERIMENTS WITH MACHINE TRANSLATION, THE POSSIB 182 JPRS-319 P. 1
51D FRENCH-TO-RUSSIAN MACHINE TRANSLATION EXPERIMENTS. 510 JPRS-8026 P. 27
219 SIMPLE EXPLANATION OF MACHINE TRANSLATION. 219 JPRS-729
248 THE CONCEPT OF EXPRESSION AND SYNTAGMATIC ANALYSIS. 248 JPRS-893 P. 49
663 CALCULATING MACHINE WITH POTENTIALLY INFINITE EXTERNAL MEMORY. THE UNIVERSALITY OF A 663 JPRS-12D5D
195 MATICHESKIY PEREVOD (AUTOMATIC TRANSLATION).EXTRACTS FROM THE SECOND EDITION OF PANOV'S AVTO 195 JPRS-487 P. 1
124 F WORDS. THE SIGNIFICANCE OF FREQUENCY AS A FACTOR IN DETERMINING THE STYLISTIC FUNCTIONS O 124 JPRS-241 P. 20
278 UAGE AND THE FREQUENCY OF LANGUAGE SIGNS. FACTORS PERTAINING TO THE DEVELOPMENT OF A LANG 278 JPRS-893 P. 99
733 THM FOR MORPHOLOGICAL ANALYSIS OF TH/ SPECIAL FEATURES OF CODING AND PROGRAMMING AN ALGORI 733 JPRS-13514 P. 330
152 MS FOR ENGLISH-RUSSIAN MACHINE TRANSLAT/ MAIN FEATURES OF THE GLOSSARY AND GRAMMATICAL PROGRA 152 JPRS-241 P. 51
412 TRANSLATION '. REVIEW OF A. V. FEDEROV'S BOOK ' INTRODUCTION TO THE THEORY OF 412 JPRS-6152 P. 1
217 RAL-PURPOSE DIGITAL COMPUTER USING MAGNETIC (FERRITE) ELEMENTS. LEM-1 SMALL GENE 217 JPRS-705
665 METHODS OF/ STATIC AND IMPULSE PROPERTIES OF FERRITE CORES WITH RECTANGULAR HYSTERESIS LOOPS AND 665 JPRS-12133
221 IENTIFIC RESEARCH AND EDUCATIONAL WORK IN THE FIELD OF LOGIC. URGENT TASKS OF SC 221 JPRS-863
671 ANIZED SYSTEM FOR LITERATURE SEARCHING IN THE FIELD OF MECHANICS. /PLOYED IN AN EXPERIMENTAL MECH 671 JPRS-13055
532 SOLUTION BY MEA/ INFORMATION PROBLEMS IN THE FIELD OF PHYSICAL- CHEMICAL ANALYSIS AND THEIR 532 JPRS-8479 P. 69
568 ACCORDING TO STRUCTURAL CHARACTERISTI/ THE ' FILTER ' SYSTEM FOR SEARCHING FOR CHEMICAL COMPOUNDS 568 JPRS-8991
653 ADDRESS COMPUTING AND LOGICAL MACHINE WITH A FLOATING POINT. /YSTEM OF INSTRUCTIONS FOR A THREE- 653 JPRS-11985
498 ON TRANSFORMATIONS OF PROGRAM FLOW DIAGRAMS. 498 JPRS-6868
356 TILIZATION OF TECHNICAL EQUIPMENT IN TEACHING FOREIGN LANGUAGES. CONFERENCE ON U 356 JPRS-3597 P. 8
5D5 A MACHINE READS FORGOTTEN SCRIPT. 505 JPRS-6997 P. 1
638 ATION OF ORGANIC COMPOUND NAMES INTO STANDARD FORM AND STRUCTURAL FORMULAS INTO SYSTEMATIC 638 JPRS-114B3 P. 171
738 THE OPERATIONAL FORM OF AN ALGORITHM FOR MACHINE TRANSLATION. 738 JPRS-13543 P. 86
622 DLVING COMPLEX LOGICAL PROBLEMS TO AN OPTIMAL FORM. ON THE TRANSFORMATION OF PROGRAMS FOR S 622 JPRS-11088 P. 1
694 S. FORM-GENERATING IN SYNTHESIS OF RUSSIAN WORD 694 JPRS-13173 P. 231
783 HE RUSSIAN LANGUAGE. FORMAL ANALYSIS OF PASSIVE CONSTRUCTIONS IN T 783 JPRS-13790 P. 54
746 CONNECTIONS OF PREPOSITIONAL PHRASES THROUGH FORMAL ANALYSIS. /TABLISHING THE SYNTACTICAL 746 JPRS-13543 P. 289
611 ATION OF SYNTACTICAL HOMONYMY ON THE BASIS OF FORMAL DESCRIPTION OF CONTEXT IN MODERN ENGLI 611 JPRS-10777 P. 38
595 (UNO AND ORDER). FORMAL DETERMINATION OF TYPES OF COORDINATION 595 JPRS-10576 P. 22
280 AUTOMATIC PROGRAMMING AS TRANSLATION IN FORMAL LANGUAGES. 280 JPRS-893 P. 101
245 UCTURE OF TRANSLATION ALGORITHMS. FORMAL MATHEMATICAL LANGUAGE MODELS AND THE STR 245 JPRS-893 P. 42
598 TRANSLATION. THE CONSTRUCTION OF A FORMAL MORPHOLOGY IN CONNECTION WITH MACHINE 598 JPRS-10576 P. 50
593 CERTAIN THEOREMS OF FORMAL MORPHOLOGY. 593 JPRS-10576 P. 1
134 A FORMAL THEORY OF THE SENTENCE. 134 JPRS-241 P. 31
769 ON THE FORMALIZATION OF CONTEXT. 769 JPRS-13761 P. 57
265 E INTO OUTPUT LANGUAGE. WORD FORMATION IN CONVERSION OF INTERMEDIARY LANGUAG 265 JPRS-893 P. 82
695 ON WORD FORMATIONS IN MACHINE TRANSLATION. 695 JPRS-13173 P. 261
747 AN APPROACH TO THE PROBLEM OF DISTINGUISHING FORMS ENDING IN -O (-E) WITH AN ADJECTIVAL 747 JPRS-13543 P. 301
156 THE SYNTHESIS OF RUSSIAN VERB FORMS IN MACHINE TRANSLATION. 156 JPRS-241 P. 58
70D . SOME NUMERICAL DATA PERTAINING TO FORMS OF NOUNS AND VERBS OF RUSSIAN LANGUAGE 700 JPRS-13173 P. 339
657 NTO RUSSIAN. SYNTHESIS OF FORMS OF RUSSIAN WORDS DURING MACHINE TRANSLATION I 657 JPRS-12D47
633 ENTED IN RATIONAL NOMENCLATURE, INTO A LINEAR FORMULA. /HE NAME OF A COMPLEX COMPOUND PRES 633 JPRS-11483 P. 126
632 NOTA/ AN ALGORITHM FOR TRANSLATING STRUCTURAL FORMULAS IN ORGANIC CHEMISTRY INTO CANONICAL 632 JPRS-11483 P. 63
526 ON CERTAIN SYSTEMS FOR RECORDING STRUCTURAL FORMULAS IN ORGANIC CHEMISTRY. 526 JPRS-8372 P. 36
167 DETERMINATION OF SYNTACTIC CONNECTIONS FOR FORMULAS IN RUSSIAN MATHEMATICAL TEXTS. 167 JPRS-241 P. 68
691 ESTABLISHMENT OF SYNTACTIC CONNECTIONS FOR FORMULAS IN RUSSIAN MATHEMATICAL TEXTS. 691 JPRS-13173 P. 203
638 POUND NAMES INTO STANDARD FORM AND STRUCTURAL FORMULAS INTO SYSTEMATIC NAMES. /ORGANIC COM 638 JPRS-11483 P. 171
634 TRANSLATING OF INORGANIC COMPOUND NAMES INTO FORMULAS. ALGORITHMIC APPROACHES TO THE 634 JPRS-11483 P. 134
554 FORMULATION OF A DOCUMENTATION SYSTEM. 554 JPRS-8938 P. 29
144 ANCIENT TEXTS AND MACHINE TRANSLATION (A FORMULATION OF THE PROBLEM). 144 JPRS-241 P. 44
573 .O.S.H. INFORMATION-PROCESSING REQUIREMENTS FRAME OF REFERENCE FOR COLLABORATION WITH G.E 573 JPRS-10361 P. 55
145 AN ALGORITHM FOR TRANSLATING FRENCH INTO RUSSIAN ELECTRONICALLY. 145 JPRS-241 P. 45
310 EXPERIMENTAL TRANSLATIONS FROM FRENCH INTO RUSSIAN ON THE STRELA COMPUTER. 310 JPRS-1145 P. 18
17B EXPERIMENTAL TRANSLATIONS FROM FRENCH INTO RUSSIAN. 17B JPRS-241 P. 80
470 THE RELATIONSHIP BETWEEN ENDING AND GENDER OF FRENCH NOUNS. STATISTICS ON 470 JPRS-6543 P. 104
103 MACHINE TRANSLATION FROM FRENCH TO RUSSIAN. 103 JPRS-6B P. 9
655 ON MACHINE TRANSLATION FROM FRENCH TO RUSSIAN, DESCRIPTION OF THE PROGRAM. 655 JPRS-12046
205 MACHINE TRANSLATION FROM FRENCH. 205 JPRS-621 P. 1
166 A FRENCH-RUSSIAN TRANSLATION ALGORITHM. 166 JPRS-241 P. 68
510 NTS. FRENCH-TO-RUSSIAN MACHINE TRANSLATION EXPERIME 510 JPRS-8026 P. 27
443 FRENCH-TO-RUSSIAN MACHINE TRANSLATION. 443 JPRS-6492 P. 1
447 TD-RUSSIAN TRANSLATION ALGORITHM. FRENCH-TO-RUSSIAN MACHINE TRANSLATION. FRENCH- 447 JPRS-6494 P. 14
447 FRENCH-TO-RUSSIAN MACHINE TRANSLATION. FRENCH-TO-RUSSIAN TRANSLATION ALGORITHM. 447 JPRS-6494 P. 14
124 TIC FUNCTIONS OF WORDS. THE SIGNIFICANCE OF FREQUENCY AS A FACTOR IN DETERMINING THE STYLIS 124 JPRS-241 P. 20
366 SOME PROCEDURAL PROBLEMS IN COMPILING FREQUENCY DICTIONARY AND TEXT). 366 JPRS-3599 P. 16
468 ATHEMATICS TEXTS. ON THE RUSSIAN FREQUENCY DICTIONARY, BASED ON MATERIAL FROM M 46B JPRS-6543 P. 86
278 NING TO THE DEVELOPMENT OF A LANGUAGE AND THE FREQUENCY OF LANGUAGE SIGNS. FACTORS PERTAI 27B JPRS-B93 P. 99
140 L LITERATURE. THE FREQUENCY OF LEXICAL UNITS IN ENGLISH GEOLOGICA 140 JPRS-241 P. 39
649 IME OF CALCULATION ON THE STEP LENGTH AND THE FREQUENCY OF RANDOM SLIPS OF THE MACHINE. /T 649 JPRS-11844 P. 15
573 NTS FRAME OF REFERENCE FOR COLLABORATION WITH G.E.O.S.H. INFORMATION-PROCESSING REQUIREME 573 JPRS-10361 P. 55
5B3 IRST QUARTER 1960. REPORT ON THE WORK OF G.E.O.S.H. (MARC BLOCH ASSOCIATION) DURING F 5B3 JPRS-103B0 P. 6
572 ECOND QUARTER 1960. REPORT ON THE WORK OF G.E.O.S.H. (MARC BLOCH ASSOCIATION) DURING S 572 JPRS-10361 P. 2
577 A THEORY OF G-ORDERS. 577 JPRS-1D367 P. 8

238 REMARKS ON A METHOD OF ANALYZING GAPS. 238 JPRS-893 P. 32
155 N VERB. GENDER AS A SUPERFLUOUS CATEGORY OF THE RUSSSIA 155 JPRS-241 P. 56
470 ISTICS ON THE RELATIONSHIP BETWEEN ENDING AND GENDER OF FRENCH NOUNS. STAT 470 JPRS-6543 P. 104
187 E SYMPOSIUM AT THE 8TH MENDELEYEV CONGRESS ON GENERAL AND APPLIED CHEMISTRY). /). (REPORTS TO TH 187 JPRS-331
562 GENERAL CONCLUSION. 562 JPRS-8938 P. 50
671 XPERIMENTAL MECHANIZED SYSTEM FOR LITERATU/ A GENERAL INFORMATION LANGUAGE TO BE EMPLOYED IN AN E 671 JPRS-13055
224 HEMATICAL LINGUSITICS. A GENERAL LINGUISTIC THEORY OF TRANSLATION AND MAT 224 JPRS-893 P. 1
138 MACHINE TRANSLATION. SOME GENERAL PRINCIPLES IN COMPILING GLOSSARIES FOR 138 JPRS-241 P. 36
183 THE CHINESE LANGUAGE. THE GENERAL PRINCIPLES OF MACHINE TRANSLATION FROM 183 JPRS-319 P. 10
111 SOME GENERAL PROBLEMS IN MACHINE TRANSLATION. 111 JPRS-241 P. 1
283 SOME GENERAL PROBLEMS IN MACHINE TRANSLATION. 283 JPRS-925 P. 1
279 AGNETIC ELEMENTS AS THE COMPUTING DEVICE OF A GENERAL PURPOSE LOGICAL MACHINE. /EM-11 WITH M 279 JPRS-893 P. 101
279 LEMENTS AS THE COMPUTING OEVI/ THE HIGH SPEED GENERAL PURPOSE MACHINE LEM-11 WITH MAGNETIC E 279 JPRS-893 P. 101
127 Y OF APPLYING IT TO THE THEORY OF TRANSLAT/ A GENERAL THEORY OF DEFINITION AND THE POSSIBILIT 127 JPRS-241 P. 23
120 H MACHINE TRANSLATION. A GENERAL THEORY OF TRANSLATION IN CONNECTION WIT 120 JPRS-241 P. 15
591 EFFECTIVENESS OF GENERAL-PURPOSE COMPUTERS FOR TRANSLATION PURPOSES. 591 JPRS-10509
217 RITE) ELEMENTS. LEM-1 SMALL GENERAL-PURPOSE DIGITAL COMPUTER USING MAGNETIC (FER 217 JPRS-705
244 STUDYING LANGUAGE STRUCTURE. GENERALIZATION AND POSTULATION OF CONSTRUCTS IN 244 JPRS-893 P. 37
600 E OF GEOMETRY. RULES FOR GENERATING SENTENCES IN A STANDARDIZED LANGUAG 6DD JPRS-10597 P. 1
14D THE FREQUENCY OF LEXICAL UNITS IN ENGLISH GEOLOGICAL LITERATURE. 14D JPRS-241 P. 39
779 IAN TO THE INFOR/ AN INFORMATION LANGUAGE FOR GEOMETRY AND A TRANSLATION ALGORITHM FROM RUSS 779 JPRS-13790 P. 5
685 USSIAN INTO INFO/ ON INFORMATION LANGUAGE FOR GEOMETRY AND ALGORITHM FOR TRANSLATION FROM R 685 JPRS-13173 P. 52
766 RUSSIAN LANGUAG/ AN INFORMATION LANGUAGE FOR GEOMETRY AND AN ALGORITHM FOR TRANSLATING FROM 766 JPRS-13761 P. 1
270 SIAN INTO AN INF/ AN INFORMATION LANGUAGE FOR GEOMETRY AND THE RULES FOR TRANSLATION FROM RUS 27D JPRS-893 P. 90
636 PROBLEMS IN CREATING A MACHINE LANGUAGE FOR GEOMETRY. 636 JPRS-11483 P. 154
60D ATING SENTENCES IN A STANDARDIZED LANGUAGE OF GEOMETRY. RULES FOR GENER 60D JPRS-10597 P. 1
539 ON ROUTINES FOR ANALYSIS OF GEORGIAN FOR MACHINE TRANSLATION. 539 JPRS-8929 P. 1
368 ROCESSING PREFIXES IN MACHINE ANALYSIS OF THE GEORGIAN LANGUAGE. P 368 JPRS-3599 P. 33
771 MACHINE BREAKDOWN OF THE GEORGIAN SENTENCE. 771 JPRS-13761 P. 74
541 OCESS OF DISTRIBUTION OF LETTERS IN WORDS FOR GEORGIAN. PR 541 JPRS-8929 P. 5
54D ISTICS OF TWO-LETTER COMBINATIONS IN LITERARY GEORGIAN. STAT 540 JPRS-8929 P. 4
566 ANALYSIS OF THE COMPLEX SENTENCE (GERMAN). 566 JPRS-8966
230 GRAMMATICAL CATEGORY ' TO AN ANALYSIS OF THE GERMAN CASES. /HIN'S CONCEPT OF AN ' ELEMENTARY 23D JPRS-893 P. 21
286 MACHINE TRANSLATION OF GERMAN COMPOUND NOUNS INTO RUSSIAN. 286 JPRS-925 P. 64
614 AN ALGORITHM TO ABRIDGE GERMAN FOR INPUT INTO A MACHINE. 614 JPRS-10808 P. 7
174 MACHINE TRANSLATION OF COMPOUND NOUNS FROM GERMAN INTO RUSSIAN. 174 JPRS-241 P. 76
744 OF A DICTIONARY AND RULES FOR ANALYSIS OF THE GERMAN LANGUAGE. THE STRUCTURE 744 JPRS-13543 P. 246
743 CAL ANALYSIS FOR MACHINE TRANSLATION FROM THE GERMAN LANGUAGE. /RE OF INDEPENDENT GRAMMATI 743 JPRS-13543 P. 231
262 NPUT LANGUAGE INTO INTERMEDIARY LANGUAGE (ON GERMAN MATERIAL). CONVERSION OF I 262 JPRS-893 P. 78
237 CONCERNING ONE MODEL OF A GERMAN SIMPLE SENTENCE. 237 JPRS-893 P. 28
287 FOR MACHINE TRANS/ PRINCIPLES IN COMPILING A GERMAN-RUSSIAN DICTIONARY OF POLYSEMANTIC WORDS 287 JPRS-925 P. 72
151 INE TRANSLATION. PRINCIPLES IN COMPILING A GERMAN-RUSSIAN GLOSSARY OF POLYSEMANTS FOR MACH 151 JPRS-241 P. 50
138 SOME GENERAL PRINCIPLES IN COMPILING GLOSSARIES FOR MACHINE TRANSLATION. 138 JPRS-241 P. 36
152 USSIAN MACHINE TRANSLAT/ MAIN FEATURES OF THE GLOSSARY AND GRAMMATICAL PROGRAMS FOR ENGLISH-R 152 JPRS-241 P. 51
741 TEXT MATTER. THE STRUCTURE AND NATURE OF A GLOSSARY FOR INDEPENDENT ANALYSIS OF CHINESE 741 JPRS-13543 P. 209
151 . PRINCIPLES IN COMPILING A GERMAN-RUSSIAN GLOSSARY OF POLYSEMANTS FOR MACHINE TRANSLATION 151 JPRS-241 P. 50
154 ACHINE TRANSLATION. GLOSSARY STRUCTURE AND INFORMATION CODING FOR M 154 JPRS-241 P. 56
667 OR PROCESSING WORD COMBINATIONS WITH ' STRONG GOVERNMENT ' (FOR AUTOMATIC SYNTACTIC ANALYSIS). 667 JPRS-12441
450 THE PROBLEM OF GOVERNMENT IN THE RUSSIAN LANGUAGE. 45D JPRS-6505 P. 4
119 ACHINE TRANSL/ THE ' ACTIVE ' AND ' PASSIVE ' GRAMMAR OF L. V. SHCHERBA AND THE PROBLEMS OF M 119 JPRS-241 P. 13
250 ' GRAMMATICAL ' IN AN INTERMEDIARY LANGUAGE. 25D JPRS-893 P. 6D
509 THE PROBLEM CONCERNING THE ' GRAMMATICAL ' IN AN INTERMEDIATE LANGUAGE. 509 JPRS-8026 P. 15
768 N FROM THE RU/ STRUCTURE OF THE ALGORITHM FOR GRAMMATICAL ANALYSIS (FOR MACHINE TRANSLATIO 768 JPRS-13761 P. 28
159 CHINESE INTO RUSSIAN. GRAMMATICAL ANALYSIS FOR MACHINE TRANSLATION OF 159 JPRS-241 P. 60
743 A DESCRIPTION OF THE STRUCTURE OF INDEPENDENT GRAMMATICAL ANALYSIS FOR MACHINE TRANSLATION 743 JPRS-13543 P. 231
288 M CHINESE INTO RUSSIAN. GRAMMATICAL ANALYSIS IN MACHINE TRANSLATION FRO 288 JPRS-925 P. 83
261 URE IN CONVERSION INTO AN INT/ THE PROBLEM OF GRAMMATICAL ANALYSIS OF ENGLISH SENTENCE STRUCT 261 JPRS-893 P. 76
449 CONSTRUCTION OF AN ALGORITHM FOR INDEPENDENT GRAMMATICAL ANALYSIS OF THE RUSSIAN LANGUAGE. 449 JPRS-6505 P. 1
230 R. L. DOBRUSHIN'S CONCEPT OF AN ' ELEMENTARY GRAMMATICAL CATEGORY ' TO AN ANALYSIS OF THE GE 230 JPRS-893 P. 21
125 AN EXPERIMENT TO DEFINE THE CONCEPT OF GRAMMATICAL CATEGORY. 125 JPRS-241 P. 21
208 OF SETS. ONE METHOD OF DEFINING GRAMMATICAL CONCEPTS ON THE BASIS OF THE THEORY 208 JPRS-646 P. 1
133 A METHOD OF DEFINING GRAMMATICAL CONCEPTS. 133 JPRS-241 P. 31
511 CAL TEXT. STATISTICAL INVESTIGATION OF GRAMMATICAL CONFIGURATION IN ENGLISH MATHEMATI 511 JPRS-8026 P. 4D
254 UAGE. GRAMMATICAL INFORMATION AND AN INFORMATION LANG 254 JPRS-893 P. 69
255 RMEDIARY LANGUAGE. TWO TYPES OF GRAMMATICAL INFORMATION WITH RESPECT TO AN INTE 255 JPRS-893 P. 71
152 E TRANSLAT/ MAIN FEATURES OF THE GLOSSARY AND GRAMMATICAL PROGRAMS FOR ENGLISH-RUSSIAN MACHIN 152 JPRS-241 P. 51
285 / BASIC CHARACTERISTICS OF THE DICTIONARY AND GRAMMATICAL ROUTINES FOR MACHINE TRANSLATION FR 285 JPRS-925 P. 36
429 . GRAMMATICAL STRUCTURE AND AUTOMATIC TRANSLATION 429 JPRS-6240 P. 1
139 ARY THEORETICAL LINGUISTICS IN ANCIENT INDIAN GRAMMATICAL WORKS. /MS AND METHODS OF CONTEMPOR 139 JPRS-241 P. 37
716 VICE). CLASSIFICATION OF A TABLE OF RUSSIAN GRAPHEMES (ON THE PROBLEM OF BUILDING A READING DE 716 JPRS-13256
759 AN EXPERIMENT IN CONSTRUCTING A SYSTEM FOR GRAPHIC ANALYSIS OF CHINESE CHARACTERS. 759 JPRS-13543 P. 503
575 WHAT IS GRISA. 575 JPRS-10367 P. 1
698 SYNTACTIC ANALYSIS OF PREPOSITIONAL GROUPS IN ENGLISH LANGUAGE. 698 JPRS-13173 P. 314
689 ING A SYNTACTIC RELATIONSHIP OF PREPOSITIONAL GROUPS IN THE RUSSIAN LANGUAGE. ESTABLISH 689 JPRS-13173 P. 155
467 S IN THE STATISTICAL INVESTIGATION OF LEXICAL GROUPS. SOME PROBLEM 467 JPRS-6543 P. 77
142 STRUCTING A/ SOME PROBLEMS CONNECTED WITH THE HANDLING OF VERBS WITH ALTERNATING STEMS IN CON 142 JPRS-241 P. 42
129 HEGEL'S THEOREM AND LINGUISTIC PARADOXES. 129 JPRS-241 P. 25
329 THE MEMORY ASKS FOR HELP. 329 JPRS-3225 P. 1
323 ION. WORK ON HINDUSTANI (HINDI)-RUSSIAN ALGORITHM OF MACHINE TRANSLAT 323 JPRS-2150 P. 149
163 N. WORK ON A HINDUSTANI (HINDI)-RUSSIAN ALGORITHM OF MACHINE TRANSLATIO 163 JPRS-241 P. 66
323 HINE TRANSLATION. WORK ON HINDUSTANI (HINDI)-RUSSIAN ALGORITHM OF MAC 323 JPRS-215D P. 149
163 NE TRANSLATION. WORK ON A HINDUSTANI (HINDI)-RUSSIAN ALGORITHM OF MACHI 163 JPRS-241 P. 66
225 AGE SYSTEMS AND THE PRINCIPLES OF COMPARATIVE HISTORICAL LINGUISTICS. /RELATIONS BETWEEN LANGU 225 JPRS-893 P. 3
545 TION. HISTORICAL NOTES ABOUT THE SYSTEMS OF DOCUMENTA 545 JPRS-8938 P. 4
378 MACHINE TRANSLATION. VARIOUS TYPES OF HOMONYMS AND METHODS OF DISTINGUISHING THEM IN 378 JPRS-3629 P. 11
209 TO RUSSIAN. PROBLEMS IN DISTINGUISHING HOMONYMS IN MACHINE TRANSLATION FROM ENGLISH IN 209 JPRS-646 P. 19
57D PROBLEMS IN THE CLASSIFICATION OF RUSSIAN HOMONYMS. 57D JPRS-8994
475 THE PROBLEM OF HOMONYMY AND POLYSEMY. 475 JPRS-6588 P. 38
742 ESE TEXT MATTER. ON SOLVING CONVERSION HOMONYMY DURING INDEPENDENT ANALYSIS OF CHIN 742 JPRS-13543 P. 217
168 ELIMINATION OF MORPHOLOGICAL AND SYNTACTIC HOMONYMY IN ANALYZING ENGLISH TEXTS. 168 JPRS-241 P. 69

473 EM OF THE RUSSIAN NOUN. (CERTAIN PROBLEMS OF
732 IN THE RUSSIAN LANGUAGE (FOR DISTINCTION OF
697 LISH TEXT. WORD TREATMENT WITH
611 F CONTEXT IN/ THE ELIMINATION OF SYNTACTICAL
781 SIMULTANEOUS RECOGNITION OF
555 ANALYSIS AND SELECTION OF DOCUMENTS IN THE
210 MACHINE TRANSLATION FROM
773 AN INTERESTING
665 PROPERTIES OF FERRITE CORES WITH RECTANGULAR
482 THE
596 AN SENTENCE.
491 THE TERMS ' STABILITY ' AND '
350 S/ THE QUANTITY OF COORDINATE DESCRIPTIONS OF
361 DEVICE FOR RECORDING
337 SCIENTIFIC AND TECHNICAL INFORMATION AND ITS
785 -6D LANGUAGE.
338 BIBLIOGRAPHIC INFORMATION WORK- AN
272 REAL AND INFORMATION LANGUAGES (WITH LIMITS
665 R HYSTERESIS LOOPS AND METHODS OF/ STATIC AND
324 N ALGORITHM OF MACHINE TRANSLATI/ ELEMENTS OF
741 THE STRUCTURE AND NATURE OF A GLOSSARY FOR
742 ON SOLVING CONVERSION HOMONYMY OURING
326 SIMPLE CLAUSE IN ENGLISH. FIRST STAGE OF AN
740 ESE TEXT MATTER IN MACHINE TRANS/ A SYSTEM OF
743 TRANSLATI/ A DESCRIPTION OF THE STRUCTURE OF
449 LANGUAGE. CONSTRUCTION OF AN ALGORITHM FOR
749 EOISH LANGUAGE. ON AN ALGORITHM FOR
753 ALGORITHM FOR ORDERING WORDS IN A SENTENCE IN
772 WORD ORDER IN
752 . THE CONSTRUCTION OF SENTENCES IN
529 THE AUTOMATIC COMPILATION OF ORGANIC COMPOUND
712 MACHINES TO COMPILE ISSUE-BY-ISSUE AND ANNUAL
375 METHODS OF IMPROVING CHEMICAL
139 NTEMPORARY THEORETICAL LINGUISTICS IN ANCIENT
748 S OF CLAUSES. SYNTACTICAL
460 OS TO DETERMINE THE PHONETIC MEMBERSHIP OF AN
318 ROOT-SEPARATING PROGRAM FOR AN
147 TION. WORK ON AN
794 THE USE OF PUNCHED CARDS IN
809 NEW ELECTRONIC EQUIPMENT FOR THE PRINTING
663 ITY OF A CALCULATING MACHINE WITH POTENTIALLY
169 THE SUPERFLUOUSNESS OF RUSSIAN ADJECTIVE
692 REDUNDANCY OF CERTAIN CONTRAPOSITIONS IN THE
580 DESCRIPTION OF AN ALGORITHM FOR
254 GRAMMATICAL
480 TIFIC RESEARCH ORGANIZATION.
337 L-UNION INSTITUTE OF SCIENTIFIC AND TECHNICAL
484 TECHNICAL
154 GLOSSARY STRUCTURE AND
242 THE STRUCTURE OF
594 ON THE STRUCTURE OF
317 E STRUCTURE OF A DICTIONARY AND THE CODING OF
485 ORGANIZATION OF TECHNICAL
270 HE RULES FOR TRANSLATION FROM RUSSIAN INTO AN
673 MENT IN THE DEVELOPMENT OF A VOCABULARY OF AN
779 ATION ALGORITHM FROM RUSSIAN TO THE INFOR/ AN
685 HM FOR TRANSLATION FROM RUSSIAN INTO INFO/ ON
766 ITHM FOR TRANSLATING FROM RUSSIAN LANGUAG/ AN
270 FOR TRANSLATION FROM RUSSIAN INTO AN INF/ AN
266 AN
671 TAL MECHANIZED SYSTEM FOR LITERATU/ A GENERAL
254 GRAMMATICAL INFORMATION AND AN
766 FOR TRANSLATING FROM RUSSIAN LANGUAGE INTO AN
685 D ALGORITHM FOR TRANSLATION FROM RUSSIAN INTO
272 OPTIMUM CODING OF COMPLEX ITEMS IN REAL AND
686 TRANSLATION OF TITLES OF CHEMICAL PAPERS INTO
214 THE PROBLEM OF AN
635 OBLEMS INVOLVED IN USING SEMANTIC BONDS IN AN
309 LEM OF CONSTRUCTING A MACHINE LANGUAGE FOR AN
315 IN THE CREATION OF A MACHINE LANGUAGE FOR AN
629 ROBLEMS OF CREATING A MACHINE LANGUAGE FOR AN
108 HE PROBLEM OF DEVELOPMENT AND CONSTRUCTION OF
530 ETHODS OF PROCESSING I/ SYSTEMS FOR RECORDING
530 C REACTIONS AND CERTAIN METHODS OF PROCESSING
533 UNDS. MACHINE INPUT AND OUTPUT OF
532 CHEMICAL ANALYSIS AND THEIR SOLUTION BY MEA/
523 CLASSIFICATION AND BIBLIOGRAPHIC ANALYSIS OF
630 F CONSTRUCTING MATHEMATICAL LOGIC THEORIES OF
281
394
547
255 GUAGE. TWO TYPES OF GRAMMATICAL
338 FIC RESEARCH. BIBLIOGRAPHIC
669 BIBLIOGRAPHIC DESCRIPTION AS AN ELEMENT OF
559 SOME PROBLEMS IN PROCESSING NONNUMERICAL
806 MECHANIZATION OF SORTING LARGE VOLUMES OF
710 SELF-TEACHING MACHINES FOR PROCESSING SPOKEN
522 FOR SOLVING PROBLEMS CONCERNING ONE CLASS OF
276 AND DEVELOPMENT OF DEVICES FOR ORAL OUTPUT OF
601 N SYSTEM TO THE ORGANIZATION AND RETRIEVAL OF

HOMONYMY IN MACHINE TRANSLATION). /E CASE SYST 473 JPRS-6588 P. 1
HOMONYMY OF MORPHEMES OURING ANALYSIS IN MAC 732 JPRS-13514 P. 313
HOMONYMY OF PARTS OF SPEECH IN ANALYZING ENG 697 JPRS-13173 P. 305
HOMONYMY ON THE BASIS OF FORMAL DESCRIPTION O 611 JPRS-10777 P. 38
HUMAN SPEECH. 781 JPRS-13790 P. 24
HUMANITIES. 555 JPRS-8938 P. 33
HUNGARIAN INTO RUSSIAN. 210 JPRS-646 P. 28
HYPOTHESIS OF YNGVE. 773 JPRS-13761 P. 90
HYSTERESIS LOOPS AND METHODS OF MEASURING THEM. /SE 665 JPRS-12133
IDEA AND THE WORD. 482 JPRS-6678
IDENTIFICATION OF CONFIGURATIONS IN THE RUSSI 596 JPRS-10576 P. 30
IDIOMACY '. 491 JPRS-6732 P. 11
IMAGES IN SYSTEMS FOR RECOGNITION OF VISIBLE PATTERN 350 JPRS-3570
IMAGES ON PUNCHED TAPE. 361 JPRS-3598 P. 23
IMMEDIATE TASKS. THE ALL-UNION INSTITUTE OF 337 JPRS-3433 P. 1
IMPLEMENTATION OF RECURSIVE PROCEDURES IN THE ALGOL 785 JPRS-14164
IMPORTANT STAGE IN SCIENTIFIC RESEARCH. 338 JPRS-3433 P. 9
IMPOSED ON THE COMBINING POWER OF THE ELEMENTS 272 JPRS-893 P. 91
IMPULSE PROPERTIES OF FERRITE CORES WITH RECTANGULA 665 JPRS-12133
INDEPENDENT ANALYSIS IN THE VIETNAMESE-RUSSIA 324 JPRS-2150 P. 154
INDEPENDENT ANALYSIS OF CHINESE TEXT MATTER. 741 JPRS-13543 P. 209
INDEPENDENT ANALYSIS OF CHINESE TEXT MATTER. 742 JPRS-13543 P. 217
INDEPENDENT ANALYSIS OF THE STRUCTURE OF THE 326 JPRS-215D P. 166
INDEPENDENT CONFIGURATIONAL ANALYSIS OF CHIN 740 JPRS-13543 P. 165
INDEPENDENT GRAMMATICAL ANALYSIS FOR MACHINE 743 JPRS-13543 P. 231
INDEPENDENT GRAMMATICAL ANALYSIS OF THE RUSSIAN 449 JPRS-65D5 P. 1
INDEPENDENT MORPHOLOGICAL ANALYSIS OF THE SW 749 JPRS-13543 P. 338
INDEPENDENT RUSSIAN LANGUAGE SYNTHESIS. AN 753 JPRS-13543 P. 387
INDEPENDENT SYNTHESIS OF RUSSIAN SENTENCES. 772 JPRS-13761 P. 84
INDEPENDENT SYNTHESIS OF RUSSIAN TEXT MATTER 752 JPRS-13543 P. 376
INDEXES FOR CHEMICAL ABSTRACT JOURNALS. /EM OF 529 JPRS-8479 P. 9
INDEXES TO ABSTRACT JOURNALS. /OF BULL PUNCH CARD 712 JPRS-13253
INDEXES. 375 JPRS-3613
INDIAN GRAMMATICAL WORKS. /MS AND METHODS OF CO 139 JPRS-241 P. 37
INDICATORS FOR WORDS AND SYNTACTICAL ANALYSI 748 JPRS-13543 P. 315
INDIVIDUAL VOWEL SOUND. /OF STATISTICAL METHO 460 JPRS-6543 P. 21
INDONESIAN ALGORITHM OF MACHINE TRANSLATION. 318 JPRS-215D P. 61
INDONESIAN-RUSSIAN ALGORITHM OF MACHINE TRANSLA 147 JPRS-241 P. 46
INDUSTRIAL AND RESEARCH LABORATORIES (SURVEY). 794 JPRS-14468
INDUSTRY. 809 JPRS-16292
INFINITE EXTERNAL MEMORY. THE UNIVERSAL 663 JPRS-1205D
INFLECTION. 169 JPRS-241 P. 70
INFLEXION SYSTEM OF RUSSIAN NOUNS. ON 692 JPRS-13173 P. 213
INFORMATION ANALYSIS. 580 JPRS-10367 P. 62
INFORMATION AND AN INFORMATION LANGUAGE. 254 JPRS-893 P. 69
INFORMATION AND BIBLIOGRAPHIC WORK IN THE SCIEN 480 JPRS-6633 P. 7
INFORMATION AND ITS IMMEDIATE TASKS. THE AL 337 JPRS-3433 P. 1
INFORMATION BUREAUS IN THE SOVIET UNION. 484 JPRS-668D P. 2
INFORMATION CODING FOR MACHINE TRANSLATION. 154 JPRS-241 P. 56
INFORMATION FOR MACHINE TRANSLATION. 242 JPRS-893 P. 36
INFORMATION FOR MACHINE TRANSLATION. 594 JPRS-10576 P. 12
INFORMATION FOR MACHINE TRANSLATION. ON TH 317 JPRS-215D P. 41
INFORMATION IN THE SOVIET UNION. 485 JPRS-668D P. 28
INFORMATION LANGUAGE AND VICE VERSA. /TRY AND T 270 JPRS-893 P. 90
INFORMATION LANGUAGE BASED ON STEP-BY-STEP CODING O 673 JPRS-13056
INFORMATION LANGUAGE FOR GEOMETRY AND A TRANSL 779 JPRS-13790 P. 5
INFORMATION LANGUAGE FOR GEOMETRY AND ALGORIT 685 JPRS-13173 P. 52
INFORMATION LANGUAGE FOR GEOMETRY AND AN ALGOR 766 JPRS-13761 P. 1
INFORMATION LANGUAGE FOR GEOMETRY AND THE RULES 270 JPRS-893 P. 90
INFORMATION LANGUAGE FOR MATHEMATICS. 266 JPRS-893 P. 83
INFORMATION LANGUAGE TO BE EMPLOYED IN AN EXPERIMEN 671 JPRS-13055
INFORMATION LANGUAGE. 254 JPRS-893 P. 69
INFORMATION LANGUAGE. /METRY AND AN ALGORITHM 766 JPRS-13761 P. 1
INFORMATION LANGUAGE. /NGUAGE FOR GEOMETRY AN 685 JPRS-13173 P. 52
INFORMATION LANGUAGES (WITH LIMITS IMPOSED ON 272 JPRS-893 P. 91
INFORMATION LANGUAGES. ON 686 JPRS-13173 P. 99
INFORMATION MACHINE. ,214 JPRS-662 P. 7
INFORMATION MACHINE. PR 635 JPRS'11483 P. 150
INFORMATION MACHINE. THE PROB 309 JPRS-1145 P. 1
INFORMATION MACHINE. LINGUISTICS PROBLEMS 315 JPRS-2150 P. 6
INFORMATION MACHINE. LOGICAL-MATHEMATICAL P 629 JPRS-11483 P. 2
INFORMATION MACHINES. CONFERENCE ON T 108 JPRS-68 P. 68
INFORMATION ON ORGANIC REACTIONS AND CERTAIN M 530 JPRS-8479 P. 23
INFORMATION ON ORGANIC REACTIONS. /N ON ORGANI 530 JPRS-8479 P. 23
INFORMATION ON THE STRUCTURE OF CHEMICAL COMPO 533 JPRS-8479 P. 77
INFORMATION PROBLEMS IN THE FIELD OF PHYSICAL- 532 JPRS-8479 P. 69
INFORMATION REQUESTS IN ELECTRICAL ENGINEERING. 523 JPRS-8372 P. 6
INFORMATION SEARCH SYSTEMS. /POSSIBILITIES O 630 JPRS-11483 P. 17
INFORMATION THEORY AND LINGUISTICS. 281 JPRS-893 P. 102
INFORMATION THEORY AND LINGUISTICS. 394 JPRS-3796 P. 12
INFORMATION THEORY. 547 JPRS-8938 P. 8
INFORMATION WITH RESPECT TO AN INTERMEDIARY LAN 255 JPRS-893 P. 71
INFORMATION WORK- AN IMPORTANT STAGE IN SCIENTI 338 JPRS-3433 P. 9
INFORMATION. 669 JPRS-12957
INFORMATION. 559 JPRS-8938 P. 45
INFORMATION. 806 JPRS-15839 P. 1
INFORMATION. THE PROBLEM OF 710 JPRS-13198
INFORMATION. A STRUCTURAL DIAGRAM 522 JPRS-8372 P. 1
INFORMATION. INVESTIGATION OF THE PRINCIPLES 276 JPRS-893 P. 97
INFORMATION. /R. RANGANATHAN'S CLASSIFICATIO 601 JPRS-10597 P. 21

267 LINGUISTICS CONNECTED WITH MACHINE SEARCH FOR INFORMATION. /ING CERTAIN PROBLEMS OF CHEMICAL 267 JPRS-893 P. 84
269 ARCH OF THEO/ ON THE POSSIBILITY OF UTILIZING INFORMATION- LOGICAL LANGUAGES FOR A MACHINE SE 269 JPRS-893 P. 87
243 THE PLACE OF INFORMATION-CARRYING ELEMENTS IN A WORD. 243 JPRS-893 P. 36
187 REPORT/ THE PROSPECTS FOR THE UTILIZATION OF INFORMATION-LOGICAL MACHINES IN CHEMISTRY (USSR). (187 JPRS-331
573 REFERENCE FOR COLLABORATION WITH G.E.O.S.H. INFORMATION-PROCESSING REQUIREMENTS FRAME OF 573 JPRS-10361 P. 55
779 D A TRANSLATION ALGORITHM FROM RUSSIAN TO THE INFORMATIONLANGUAGE. /LANGUAGE FOR GEOMETRY AN 779 JPRS-13790 P. 5
320 ORITHM OF MACHINE TRANSLATION. INITIAL STAGE OF WORK ON AN ARABIC-RUSSIAN ALG 320 JPRS-2150 P. 79
634 ALGORITHMIC APPROACHES TO THE TRANSLATING OF INORGANIC COMPOUND NAMES INTO FORMULAS. 634 JPRS-11483 P. 134
533 RE OF CHEMICAL COMPOUNDS. MACHINE INPUT AND OUTPUT OF INFORMATION ON THE STRUCTU 533 JPRS-8479 P. 77
614 AN ALGORITHM TO ABRIDGE GERMAN FOR INPUT INTO A MACHINE. 614 JPRS-10808 P. 7
262 GERMAN MATERIAL). CONVERSION OF INPUT LANGUAGE INTO INTERMEDIARY LANGUAGE (ON 262 JPRS-893 P. 78
263 ARMENIAN MATERIAL). CONVERSION OF INPUT LANGUAGE INTO INTERMEDIARY LANGUAGE (ON 263 JPRS-893 P. 78
256 E CALCULATION OF VALENCES IN TRANSLATION FROM INPUT LANGUAGE INTO INTERMEDIARY LANGUAGE. TH 256 JPRS-893 P. 73
251 COORDINATING CONJUNCTIONS IN TRANSLATING FROM INPUT LANGUAGE INTO INTERMEDIARY LANGUAGE. /OF 251 JPRS-893 P. 63
260 CONVERSION OF INPUT LANGUAGE INTO INTERMEDIARY LANGUAGE. 260 JPRS-893 P. 76
142 CHINE TRANSLATION FOR SPANISH (A STATISTICAL INQUIRY). /IN CONSTRUCTING AN ALGORITHM OF MA 142 JPRS-241 P. 42
337 ON AND ITS IMMEDIATE TASKS. THE ALL-UNION INSTITUTE OF SCIENTIFIC AND TECHNICAL INFORMATI 337 JPRS-3433 P. 1
116 CHINE TRANSLATION STUDIES IN THE MATHEMATICAL INSTITUTE OF THE ACADEMY OF SCIENCES USSR. MA 116 JPRS-241 P. 8
764 THEORY OF INSTRUCTION FOR ONE CLASS OF DISCRETE PERCEPTRONS. 764 JPRS-13725
653 ICAL MACHINE WITH A/ SELECTION OF A SYSTEM OF INSTRUCTIONS FOR A THREE- ADDRESS COMPUTING AND LOG 653 JPRS-11985
579 . PROVISIONAL INSTRUCTIONS FOR DIAGRAMMING SCIENTIFIC TEXTS 579 JPRS-10367 P. 38
773 AN INTERESTING HYPOTHESIS OF YNGVE. 773 JPRS-13761 P. 90
696 ISH LANGUAGE (FOR TRANSLATION BY MEANS OF AN INTERMEDIARY LANGUAGE). /ALYSIS OF THE ENGL 696 JPRS-13173 P. 281
253 ENCES (AN APPROACH TO THE CONSTRUCTION OF AN INTERMEDIARY LANGUAGE). /OF LEXICAL CORRESPONO 253 JPRS-893 P. 68
263 CONVERSION OF INPUT LANGUAGE INTO INTERMEDIARY LANGUAGE (ON ARMENIAN MATERIAL). 263 JPRS-893 P. 78
262 CONVERSION OF INPUT LANGUAGE INTO INTERMEDIARY LANGUAGE (ON GERMAN MATERIAL). 262 JPRS-893 P. 78
112 AL LANGUAGES. AN INTERMEDIARY LANGUAGE AND ARTIFICIAL INTERNATION 112 JPRS-241 P. 5
252 DESIGN PRINCIPLES OF AN INTERMEDIARY LANGUAGE DICTIONARY. 252 JPRS-893 P. 66
249 NO PRINCIPLES OF ITS CONSTRUCTION. INTERMEDIARY LANGUAGE FOR MACHINE TRANSLATION A 249 JPRS-893 P. 52
265 WORD FORMATION IN CONVERSION OF INTERMEDIARY LANGUAGE INTO OUTPUT LANGUAGE. 265 JPRS-893 P. 82
117 TION. AN INTERMEDIARY LANGUAGE MODEL FOR MACHINE TRANSLA 117 JPRS-241 P. 11
185 TION. AN INTERMEDIARY LANGUAGE MODEL FOR MACHINE TRANSLA 185 JPRS-319 P. 25
107 MACHINE TRANSLATION AND THE PROBLEM OF AN INTERMEDIARY LANGUAGE. 107 JPRS-68 P. 58
250 ' GRAMMATICAL ' IN AN INTERMEDIARY LANGUAGE. 250 JPRS-893 P. 60
258 THE CATEGORY OF VOICE IN THE INTERMEDIARY LANGUAGE. 258 JPRS-893 P. 74
260 CONVERSION OF INPUT LANGUAGE TO INTERMEDIARY LANGUAGE. 260 JPRS-893 P. 76
615 THE CATEGORY OF VOICE IN AN INTERMEDIARY LANGUAGE. 615 JPRS-10808 P. 10
255 OF GRAMMATICAL INFORMATION WITH RESPECT TO AN INTERMEDIARY LANGUAGE. TWO TYPES 255 JPRS-893 P. 71
257 OF NUMBER IN NOUNS AND TENSE IN VERBS IN THE INTERMEDIARY LANGUAGE. THE CATEGORIES 257 JPRS-893 P. 73
256 ENCES IN TRANSLATION FROM INPUT LANGUAGE INTO INTERMEDIARY LANGUAGE. THE CALCULATION OF VAL 256 JPRS-893 P. 73
264 ESIZING RULES IN MACHINE TRANSLATION USING AN INTERMEDIARY LANGUAGE. THE STRUCTURE OF SYNTH 264 JPRS-893 P. 81
261 LISH SENTENCE STRUCTURE IN CONVERSION INTO AN INTERMEDIARY LANGUAGE. /MATICAL ANALYSIS OF ENG 261 JPRS-893 P. 76
251 TIONS IN TRANSLATING FROM INPUT LANGUAGE INTO INTERMEDIARY LANGUAGE. /OF COORDINATING CONJUNC 251 JPRS-893 P. 63
610 PROBLEM CONCERNING THE STRUCTURE OF AN INTERMEDIATE LANGUAGE. 610 JPRS-10777 P. 11
509 PROBLEM CONCERNING THE ' GRAMMATICAL ' IN AN INTERMEDIATE LANGUAGE. THE 509 JPRS-8026 P. 15
735 CH TO THE CONSTRUCTION OF A VOCABULARY FOR AN INTERMEDIATE LANGUAGE. ONE APPROA 735 JPRS-13543 P. 3
370 AN INTERNATIONAL KEY FOR TRANSLATION. 370 JPRS-3599 P. 43
112 AN INTERMEDIARY LANGUAGE AND ARTIFICIAL INTERNATIONAL LANGUAGES. 112 JPRS-241 P. 5
459 THE POWER CHARACTERISTICS AND THE CORRELATION INTERVAL OF STOCHASTIC SIGNALS, PARTICULARLY SP 459 JPRS-6543 P. 7
776 NGUISTICS. INTERVUZ SCIENTIFIC CONFERENCE ON APPLIED LI 776 JPRS-13761 P. 118
299 O SPEECH SIGNALS. THE DETERMINATION OF INVARIANT SIGNS OF STOP (PLOSIVE) SOUNDS IN CLIPPE 299 JPRS-1029
589 TH THE AID OF AN ELECTRONIC COMPUTER. PRELIM/ INVESTIGATION OF ANCIENT MAYAN MANUSCRIPTS WI 589 JPRS-10508 P. 10
587 H THE AID OF AN ELECTRONIC COMPUTER. METHODS. INVESTIGATION OF ANCIENT MAYAN MANUSCRIPTS WIT 587 JPRS-10508 P. 1
588 H THE AID OF AN ELECTRONIC COMPUTER. ALGORIT/ INVESTIGATION OF ANCIENT MAYAN MANUSCRIPTS WIT 588 JPRS-10508 P. 6
511 ENGLISH MATHEMATICAL TEXT. STATISTICAL INVESTIGATION OF GRAMMATICAL CONFIGURATION IN 511 JPRS-8026 P. 40
467 SOME PROBLEMS IN THE STATISTICAL INVESTIGATION OF LEXICAL GROUPS. 467 JPRS-6543 P. 77
122 AN OBJECTIVE INVESTIGATION OF MEANING ASSOCIATIONS. 122 JPRS-241 P. 19
458 E ENGINEERING SIGNIFICANCE OF THE STATISTICAL INVESTIGATION OF SPEECH. TH 458 JPRS-6543 P. 2
469 THE STATISTICAL INVESTIGATION OF SYLLABLE STRUCTURE. 469 JPRS-6543 P. 92
276 OF DEVICES FOR ORAL OUTPUT OF INFORMATION. INVESTIGATION OF THE PRINCIPLES AND DEVELOPMENT 276 JPRS-893 P. 97
383 THE LOGICAL MODEL AS A MEANS OF SCIENTIFIC INVESTIGATION. 383 JPRS-3731 P. 9
648 . THE ISOLATION OF STEPS IN THE PLAN OF AN ALGORITHM 648 JPRS-11844 P. 1
495 RANSLATION AND LANGUAGE STATISTICS. ENTIRE ISSUE OF YUGOSLAV JOURNAL DEVOTED TO MACHINE T 495 JPRS-6732 P. 46
712 HE USE OF BULL PUNCH CARD MACHINES TO COMPILE ISSUE-BY-ISSUE AND ANNUAL INDEXES TO ABSTRACT JOURN 712 JPRS-13253
640 EVENT ON AN ELECTRONIC COMPUTER PRESENTED TO IT. THE SYNTHESIS OF AN ABSTRACT AUTOMATON BY AN 640 JPRS-11699
272 LIMITS IMPOSED ON/ OPTIMUM CODING OF COMPLEX ITEMS IN REAL AND INFORMATION LANGUAGES (WITH 272 JPRS-893 P. 91
372 NEWS ITEMS. 372 JPRS-3599 P. 53
301 THE ANALYSIS OF JAPANESE IN MACHINE TRANSLATION. 301 JPRS-1130
289 SOME PRINCIPLES IN MACHINE TRANSLATION FROM JAPANESE INTO RUSSIAN. 289 JPRS-925 P. 93
161 SOME PROBLEMS IN MACHINE TRANSLATION FROM JAPANESE INTO RUSSIAN. 161 JPRS-241 P. 63
325 MACHINE TRANSLATION FROM JAPANESE INTO RUSSIAN. 325 JPRS-2150 P. 161
389 THE JAPANESE TRANSLATION MACHINE ' YAMATO '. 389 JPRS-3758 P. 61
149 ON. WORK ON A JAPANESE-RUSSIAN ALGORITHM OF MACHINE TRANSLATI 149 JPRS-241 P. 48
754 SLATION. THE BASIC CHARACTERISTICS OF A JAPANESE-RUSSIAN DICTIONARY FOR MACHINE TRAN 754 JPRS-13543 P. 413
495 GUAGE STATISTICS. ENTIRE ISSUE OF YUGOSLAV JOURNAL DEVOTED TO MACHINE TRANSLATION AND LAN 495 JPRS-6732 P. 46
712 ISSUE-BY-ISSUE AND ANNUAL INDEXES TO ABSTRACT JOURNALS. /OF BULL PUNCH CARD MACHINES TO COMPILE 712 JPRS-13253
529 RGANIC COMPOUND INDEXES FOR CHEMICAL ABSTRACT JOURNALS. /EM OF THE AUTOMATIC COMPILATION OF O 529 JPRS-8479 P. 9
404 SLATION '. REVIEW OF A. KENT'S ' MACHINE LITERATURE SEARCHING AND TRAN 404 JPRS-6094 P. 26
370 AN INTERNATIONAL KEY FOR TRANSLATION. 370 JPRS-3599 P. 43
733 GICAL ANALYSIS OF THE RUSSIAN LANGUAGE ON THE KIEV COMPUTER. /NG AN ALGORITHM FOR MORPHOLO 733 JPRS-13514 P. 330
233 SES ' IN THE THEORETICAL SET CONCEPT OF O. S. KULAGINA. /THE NOTION OF A ' SET OF MARKED PHRA 233 JPRS-893 P. 24
558 THE ' L'UNITE ' DOCUMENTATION SYSTEM. 558 JPRS-8938 P. 43
514 REVIEW OF SAINT-MARIE'S BOOK DE LA NECESSITE D'UNE LINGUISTIQUE APPLIQUEE. 514 JPRS-8026 P. 56
422 INTRODUCTION (TO LA TRADUCTION AUTOMATIQUE). 422 JPRS-6239 P. 1
513 CTURE. REVIEW OF LAMBEK'S BOOK THE MATHEMATICS OF SENTENCE STRU 513 JPRS-8026 P. 53
768 IS (FOR MACHINE TRANSLATION FROM THE RUSSIAN LANGUAGE). /ALGORITHM FOR GRAMMATICAL ANALYS 768 JPRS-13761 P. 28
696 (FOR TRANSLATION BY MEANS OF AN INTERMEDIARY LANGUAGE). /ALYSIS OF THE ENGLISH LANGUAGE 696 JPRS-13173 P. 281
253 PROACH TO THE CONSTRUCTION OF AN INTERMEDIARY LANGUAGE). /OF LEXICAL CORRESPONDENCES (AN AP 253 JPRS-893 P. 68
732 E MORPHOLOGICAL TYPES OF STEMS IN THE RUSSIAN LANGUAGE (FOR DISTINCTION OF HOMONYMY OF MO 732 JPRS-13514 P. 313
696 TERM/ ON ALGORITHM OF ANALYSIS OF THE ENGLISH LANGUAGE (FOR TRANSLATION BY MEANS OF AN IN 696 JPRS-13173 P. 281

263 ONVERSION OF INPUT LANGUAGE INTO INTERMEDIARY LANGUAGE (ON ARMENIAN MATERIAL). C 263 JPRS-893 P. 78
262 ONVERSION OF INPUT LANGUAGE INTO INTERMEDIARY LANGUAGE (ON GERMAN MATERIAL). C 262 JPRS-893 P. 78
112 AN INTERMEDIARY LANGUAGE AND ARTIFICIAL INTERNATIONAL LANGUAGES. 112 JPRS-241 P. 5
278 FACTORS PERTAINING TO THE DEVELOPMENT OF A LANGUAGE AND THE FREQUENCY OF LANGUAGE SIGNS. 278 JPRS-893 P. 99
247 CREATING A SELF-TEACHING MACHINE TRA/ MACHINE LANGUAGE AND THE PLANE OF CONTENT (ON WAYS OF 247 JPRS-893 P. 44
27D TRANSLATION FROM RUSSIAN INTO AN INFORMATION LANGUAGE AND VICE VERSA. /TRY AND THE RULES FOR 27D JPRS-893 P. 90
673 DEVELOPMENT OF A VOCABULARY OF AN INFORMATION LANGUAGE BASED ON STEP-BY-STEP CODING OF THE MEANIN 673 JPRS-13056
252 DESIGN PRINCIPLES OF AN INTERMEDIARY LANGUAGE DICTIONARY. 252 JPRS-893 P. 66
3D9 THE PROBLEM OF CONSTRUCTING A MACHINE LANGUAGE FOR AN INFORMATION MACHINE. 3D9 JPRS-1145 P. 1
315 UISTICS PROBLEMS IN THE CREATION OF A MACHINE LANGUAGE FOR AN INFORMATION MACHINE. LING 315 JPRS-2150 P. 6
629 L-MATHEMATICAL PROBLEMS OF CREATING A MACHINE LANGUAGE FOR AN INFORMATION MACHINE. LOGICA 629 JPRS-11483 P. 2
779 THM FROM RUSSIAN TO THE INFOR/ AN INFORMATION LANGUAGE FOR GEOMETRY AND A TRANSLATION ALGORI 779 JPRS-13790 P. 5
685 LATION FROM RUSSIAN INTO INFO/ ON INFORMATION LANGUAGE FOR GEOMETRY AND ALGORITHM FOR TRANS 685 JPRS-13173 P. 52
766 NSLATING FROM RUSSIAN LANGUAG/ AN INFORMATION LANGUAGE FOR GEOMETRY AND AN ALGORITHM FOR TRA 766 JPRS-13761 P. 1
27D TION FROM RUSSIAN INTO AN INF/ AN INFORMATION LANGUAGE FOR GEOMETRY AND THE RULES FOR TRANSLA 27D JPRS-893 P. 90
636 PROBLEMS IN CREATING A MACHINE LANGUAGE FOR GEOMETRY. 636 JPRS-11483 P. 154
249 OF ITS CONSTRUCTION. INTERMEDIARY LANGUAGE FOR MACHINE TRANSLATION AND PRINCIPLES 249 JPRS-893 P. 52
266 AN INFORMATION LANGUAGE FOR MATHEMATICS. 266 JPRS-893 P. 83
631 PROBLEMS INVOLVED IN CREATING A MACHINE LANGUAGE FOR ORGANIC CHEMISTRY. 631 JPRS-11483 P. 42
714 AN OUTLINE OF A SEMANTIC LANGUAGE FOR TRANSCRIPTION 714 JPRS-13254
625 ON THE RUSSIAN LANGUAGE IN MACHINE TRANSLATION WORK DONE ABROAD. 625 JPRS-11305
322 S FOR A MORPHOLOGICAL ANALYSIS OF THE RUSSIAN LANGUAGE IN MACHINE TRANSLATION. /T OF PROGRAM 322 JPRS-215D P. 99
369 WORD-FORMING SUFFIXES OF THE ARMENIAN LANGUAGE IN MATHEMATICAL LITERATURE. 369 JPRS-3599 P. 39
24D DEVELOPMENT OF A SYMBOLIC MACHINE TRANSLATION LANGUAGE IN THE EXPERIMENTAL LABORATORY FOR MAC 24D JPRS-893 P. 34
766 AND AN ALGORITHM FOR TRANSLATING FROM RUSSIAN LANGUAGE INTO AN INFORMATION LANGUAGE. /METRY 766 JPRS-13761 P. 1
263 AN MATERIAL). CONVERSION OF INPUT LANGUAGE INTO INTERMEDIARY LANGUAGE (ON ARMENI 263 JPRS-893 P. 78
262 MATERIAL). CONVERSION OF INPUT LANGUAGE INTO INTERMEDIARY LANGUAGE (ON GERMAN 262 JPRS-893 P. 78
256 ULATION OF VALENCES IN TRANSLATION FROM INPUT LANGUAGE INTO INTERMEDIARY LANGUAGE. THE CALC 256 JPRS-893 P. 73
251 NATING CONJUNCTIONS IN TRANSLATING FROM INPUT LANGUAGE INTO INTERMEDIARY LANGUAGE. /OF COORDI 251 JPRS-893 P. 63
265 WORD FORMATION IN CONVERSION OF INTERMEDIARY LANGUAGE INTO OUTPUT LANGUAGE. 265 JPRS-893 P. 82
444 AN ALGORITHM FOR TRANSLATING FROM THE ENGLISH LANGUAGE INTO RUSSIAN. 444 JPRS-6492 P. 41
185 AN INTERMEDIARY LANGUAGE MODEL FOR MACHINE TRANSLATION. 185 JPRS-319 P. 25
117 AN INTERMEDIARY LANGUAGE MODEL FOR MACHINE TRANSLATION. 117 JPRS-241 P. 11
245 N ALGORITHMS. FORMAL MATHEMATICAL LANGUAGE MODELS AND THE STRUCTURE OF TRANSLATIO 245 JPRS-893 P. 42
246 THE CONSTRUCTION OF MATHEMATICAL LANGUAGE MODELS. 246 JPRS-893 P. 43
226 PRAGUE TYPOLOGY AND LANGUAGE MODELS. 226 JPRS-893 P. 8
6D0 ES FOR GENERATING SENTENCES IN A STANDARDIZED LANGUAGE OF GEOMETRY. RUL 60D JPRS-10597 P. 1
228 EORETICAL-SET STRUCTURE. MODELING A LANGUAGE ON THE BASIS OF ITS STATISTICAL AND TH 228 JPRS-893 P. 12
733 THM FOR MORPHOLOGICAL ANALYSIS OF THE RUSSIAN LANGUAGE ON THE KIEV COMPUTER. /NG AN ALGORI 733 JPRS-13514 P. 33D
774 N AND IN MACHINE TRANSLATION BY THE CAMBRIDGE LANGUAGE RESEARCH UNIT, CAMBRIDGE, ENGLAND, 774 JPRS-13761 P. 102
494 ENT OF STRUCTURAL AND MATHEMATICAL METHODS IN LANGUAGE RESEARCH. THE DEVELOPM 494 JPRS-6732 P. 42
441 ENT OF STRUCTURAL AND MATHEMATICAL METHODS OF LANGUAGE RESEARCH. ON THE DEVELOPM 441 JPRS-6445 P. 18
434 THE NATURE OF THE LANGUAGE SIGN. 434 JPRS-6347 P. 1
435 THE NATURE OF THE MEANING OF THE LANGUAGE SIGN. 435 JPRS-6347 P. 16
278 EVELOPMENT OF A LANGUAGE AND THE FREQUENCY OF LANGUAGE SIGNS. FACTORS PERTAINING TO THE D 278 JPRS-893 P. 99
495 AV JOURNAL DEVOTED TO MACHINE TRANSLATION AND LANGUAGE STATISTICS. ENTIRE ISSUE OF YUGOSL 495 JPRS-6732 P. 46
143 A LOGICAL ANALYSIS OF THE CONCEPT OF LANGUAGE STRUCTURE. 143 JPRS-241 P. 43
244 ION AND POSTULATION OF CONSTRUCTS IN STUDYING LANGUAGE STRUCTURE. GENERALIZAT 244 JPRS-893 P. 37
753 NG WORDS IN A SENTENCE IN INDEPENDENT RUSSIAN LANGUAGE SYNTHESIS. AN ALGORITHM FOR ORDERI 753 JPRS-13543 P. 387
115 THE SEQUENCE IN BUILDING A LANGUAGE SYSTEM. 115 JPRS-241 P. 7
683 LINGUISTICS AS A THEORY OF RELATIONS BETWEEN LANGUAGE SYSTEMS AND ITS MODERN PRACTICAL APPL 683 JPRS-13173 P. 1
225 VE HISTORI/ A THEORY OF THE RELATIONS BETWEEN LANGUAGE SYSTEMS AND THE PRINCIPLES OF COMPARATI 225 JPRS-893 P. 3
737 ON AND ESTABLISHING CORRESPOND- ENCES BETWEEN LANGUAGE SYSTEMS. MACHINE TRANSLATI 737 JPRS-13543 P. 57
699 A POSSIBLE WAY OF SIMPLIFYING STRUCTURE OF A LANGUAGE TEXT. ON ANALYSIS AND 699 JPRS-13173 P. 325
191 THE AUTOMATIZATION OF TRANSLATION FROM ONE LANGUAGE TO ANOTHER. 191 JPRS-379
671 ED SYSTEM FOR LITERATU/ A GENERAL INFORMATION LANGUAGE TO BE EMPLOYED IN AN EXPERIMENTAL MECHANIZ 671 JPRS-13055
260 CONVERSION OF INPUT LANGUAGE TO INTERMEDIARY LANGUAGE. 26D JPRS-893 P. 76
137 LANGUAGE TRAINING FOR BLIND DEAF-MUTES. 137 JPRS-241 P. 35
642 PROPOSED CHANGES IN THE ALGOL-6D ALGORITHMIC LANGUAGE. 642 JPRS-117DD
25D ' GRAMMATICAL ' IN AN INTERMEDIARY LANGUAGE. 25D JPRS-893 P. 6D
627 MATHEMATICS AND LANGUAGE. 627 JPRS-11412
254 GRAMMATICAL INFORMATION AND AN INFORMATION LANGUAGE. 254 JPRS-893 P. 69
258 THE CATEGORY OF VOICE IN THE INTERMEDIARY LANGUAGE. 258 JPRS-893 P. 74
26D CONVERSION OF INPUT LANGUAGE TO INTERMEDIARY LANGUAGE. 26D JPRS-893 P. 76
45D THE PROBLEM OF GOVERNMENT IN THE RUSSIAN LANGUAGE. 45D JPRS-65D5 P. 4
333 ON CODE AND LANGUAGE. 333 JPRS-330D P. 11
42D CONCERNING WORK ON THE STRUCTURAL ANALYSIS OF LANGUAGE. 420 JPRS-6236 P. 41
550 PHILOSOPHICAL PROBLEMS OF LANGUAGE. 55D JPRS-8938 P. 15
615 THE CATEGORY OF VOICE IN AN INTERMEDIARY LANGUAGE. 615 JPRS-1D8D8 P. 10
687 SYNTAGMAS OF THE RUSSIAN LANGUAGE. 687 JPRS-13173 P. 12D
785 ATION OF RECURSIVE PROCEDURES IN THE ALGOL-6D LANGUAGE. IMPLEMENT 785 JPRS-14164
107 RANSLATION AND THE PROBLEM OF AN INTERMEDIARY LANGUAGE. MACHINE T 1D7 JPRS-68 P. 58
61D M CONCERNING THE STRUCTURE OF AN INTERMEDIATE LANGUAGE. PROBLE 61D JPRS-10777 P. 11
75D NCIPLES OF SYNTACTICAL ANALYSIS OF THE TARTAR LANGUAGE. THE PRI 75D JPRS-13543 P. 355
368 PREFIXES IN MACHINE ANALYSIS OF THE GEORGIAN LANGUAGE. PROCESSING 368 JPRS-3599 P. 33
698 C ANALYSIS OF PREPOSITIONAL GROUPS IN ENGLISH LANGUAGE. SYNTACTI 698 JPRS-13173 P. 314
783 LYSIS OF PASSIVE CONSTRUCTIONS IN THE RUSSIAN LANGUAGE. FORMAL ANA 783 JPRS-1379D P. 54
5DD ONS OF THE SO-CALLED SET-THEORY CONCEPTION OF LANGUAGE. ON SOME NOTI 5DD JPRS-6938 P. 1
183 IPLES OF MACHINE TRANSLATION FROM THE CHINESE LANGUAGE. THE GENERAL PRINC 183 JPRS-319 P. 10
5D9 ERNING THE ' GRAMMATICAL ' IN AN INTERMEDIATE LANGUAGE. THE PROBLEM CONC 5D9 JPRS-8D26 P. 15
265 NVERSION OF INTERMEDIARY LANGUAGE INTO OUTPUT LANGUAGE. WORD FORMATION IN CO 265 JPRS-893 P. 82
255 L INFORMATION WITH RESPECT TO AN INTERMEDIARY LANGUAGE. TWO TYPES OF GRAMMATICA 255 JPRS-893 P. 71
735 STRUCTION OF A VOCABULARY FOR AN INTERMEDIATE LANGUAGE. ONE APPROACH TO THE CON 735 JPRS-13543 P. 3
744 CTIONARY AND RULES FOR ANALYSIS OF THE GERMAN LANGUAGE. THE STRUCTURE OF A DI 744 JPRS-13543 P. 246
749 PENDENT MORPHOLOGICAL ANALYSIS OF THE SWEDISH LANGUAGE. ON AN ALGORITHM FOR INDE 749 JPRS-13543 P. 338
7DD AINING TO FORMS OF NOUNS AND VERBS OF RUSSIAN LANGUAGE. SOME NUMERICAL DATA PERT 7DD JPRS-13173 P. 339
257 NOUNS AND TENSE IN VERBS IN THE INTERMEDIARY LANGUAGE. THE CATEGORIES OF NUMBER IN 257 JPRS-893 P. 73
689 ONSHIP OF PREPOSITIONAL GROUPS IN THE RUSSIAN LANGUAGE. ESTABLISHING A SYNTACTIC RELATI 689 JPRS-13173 P. 155
449 DEPENDENT GRAMMATICAL ANALYSIS OF THE RUSSIAN LANGUAGE. CONSTRUCTION OF AN ALGORITHM FOR IN 449 JPRS-6505 P. 1
256 SLATION FROM INPUT LANGUAGE INTO INTERMEDIARY LANGUAGE. THE CALCULATION OF VALENCES IN TRAN 256 JPRS-893 P. 73

264 IN MACHINE TRANSLATION USING AN INTERMEDIARY LANGUAGE. THE STRUCTURE OF SYNTHESIZING RULES 264 JPRS-893 P. 81
259 ONNECTION WITH THE CONSTRUCTION OF A STANDARD LANGUAGE. /AL PHRASES IN RUSSIAN SENTENCES IN C 259 JPRS-893 P. 75
747 (-E) WITH AN ADJECTIVAL STEM IN THE RUSSIAN LANGUAGE. /ISTINGUISHING FORMS ENDING IN -O 747 JPRS-13543 P. 3D1
261 STRUCTURE IN CONVERSION INTO AN INTERMEDIARY LANGUAGE. /MATICAL ANALYSIS OF ENGLISH SENTENCE 261 JPRS-893 P. 76
766 ING FROM RUSSIAN LANGUAGE INTO AN INFORMATION LANGUAGE. /METRY AND AN ALGORITHM FOR TRANSLAT 766 JPRS-13761 P. 1
685 FOR TRANSLATION FROM RUSSIAN INTO INFORMATION LANGUAGE. /NGUAGE FOR GEOMETRY AND ALGORITHM 685 JPRS-13173 P. 52
251 SLATING FROM INPUT LANGUAGE INTO INTERMEDIARY LANGUAGE. /OF COORDINATING CONJUNCTIONS IN TRAN 251 JPRS-893 P. 63
743 LYSIS FOR MACHINE TRANSLATION FROM THE GERMAN LANGUAGE. /RE OF INDEPENDENT GRAMMATICAL ANA 743 JPRS-13543 P. 231
272 OING OF COMPLEX ITEMS IN REAL AND INFORMATION LANGUAGES (WITH LIMITS IMPOSED ON THE COMBININ 272 JPRS-893 P. 91
681 NCE. MACHINE LANGUAGES AS AN ELEMENT OF A UNIVERSAL CODE OF SCIE 681 JPRS-13172
269 POSSIBILITY OF UTILIZING INFORMATION- LOGICAL LANGUAGES FOR A MACHINE SEARCH OF THEOREMS AND 269 JPRS-893 P. 87
637 SYNTHETIC LANGUAGES FOR BIOLOGY. 637 JPRS-11483 P. 157
6D5 MACHINES ARE LEARNING LANGUAGES. 6D5 JPRS-1D721 P. 1
28D UTOMATIC PROGRAMMING AS TRANSLATION IN FORMAL LANGUAGES. A 280 JPRS-893 P. 101
112 MEDIARY LANGUAGE AND ARTIFICIAL INTERNATIONAL LANGUAGES. AN INTER 112 JPRS-241 P. 5
686 OF TITLES OF CHEMICAL PAPERS INTO INFORMATION LANGUAGES. ON TRANSLATION 686 JPRS-13173 P. 99
356 ON OF TECHNICAL EQUIPMENT IN TEACHING FOREIGN LANGUAGES. CONFERENCE ON UTILIZATI 356 JPRS-3597 P. 8
199 STABLISHMENT OF SYSTEMS OF AGREEMENTS BETWEEN LANGUAGES. MACHINE TRANSLATION AND THE E 199 JPRS-487 P. 27
455 THE LATEST DEVELOPMENTS IN APPLIED LINGUISTICS. 455 JPRS-6507 P. 1
476 TRANSLITERATION OF RUSSIAN TEXTS INTO LATIN LETTERS. 476 JPRS-6588 P. 45
552 ON THE STATISTICAL LAWS OF LINGUISTIC DISTRIBUTIONS. 552 JPRS-8938 P. 23
605 MACHINES ARE LEARNING LANGUAGES. 6D5 JPRS-1D721 P. 1
798 A MACHINE IS LEARNING TO READ. 798 JPRS-14782
5B2 ELEMENTARY ALGEBRAIC ANALYSIS OF THE LECERF-IHM CRITERION. 582 JPRS-10380 P. 2
544 PRESENTATION OF THE LECTURES. 544 JPRS-8938 P. 2
217 GNETIC (FERRITE) ELEMENTS. LEM-1 SMALL GENERAL-PURPOSE DIGITAL COMPUTER USING MA 217 JPRS-7D5
279 DEVI/ THE HIGH SPEED GENERAL PURPOSE MACHINE LEM-11 WITH MAGNETIC ELEMENTS AS THE COMPUTING 279 JPRS-893 P. 101
649 NDENCE OF THE TIME OF CALCULATION ON THE STEP LENGTH AND THE FREQUENCY OF RANDOM SLIPS OF T 649 JPRS-11844 P. 15
312 ANSLATION. THE LENINGRAD ALL-UNIVERSITY SEMINAR ON MACHINE TR 312 JPRS-1145 P. 44
343 THE CONFERENCE ON MATHEMATICAL LINGUISTICS IN LENINGRAD IN 1959). /THE USSR (EXPERIENCE AT 343 JPRS-3502 P. 4
807 SIS OF TEXT MATTER. DETERMINING LETTER COMBINATIONS THROUGH STATISTICAL ANALY 8D7 JPRS-15839 P. 2D
479 QUASI-TOPOLOGICAL METHOD OF LETTER RECOGNITION. 479 JPRS-6633 P. 1
792 LETTER TO THE EDITOR. 792 JPRS-14318 P. 15
541 PROCESS OF DISTRIBUTION OF LETTERS IN WORDS FOR GEORGIAN. 541 JPRS-8929 P. 5
476 TRANSLITERATION OF RUSSIAN TEXTS INTO LATIN LETTERS. 476 JPRS-6588 P. 45
492 AUTOMATIC LEXICAL CODING OF MESSAGES. 492 JPRS-6732 P. 23
160 CATIONS OF MACHINE TRANSLATION METHODS TO THE LEXICAL CODING OF TELEGRAPHIC AND TELEPHONIC CO 160 JPRS-241 P. 62
253 NSTRUCTION OF AN INTERMEDIAR/ THE TYPOLOGY OF LEXICAL CORRESPONDENCES (AN APPROACH TO THE CO 253 JPRS-893 P. 68
467 PROBLEMS IN THE STATISTICAL INVESTIGATION OF LEXICAL GROUPS. SOME 467 JPRS-6543 P. 77
140 THE FREQUENCY OF LEXICAL UNITS IN ENGLISH GEOLOGICAL LITERATURE. 140 JPRS-241 P. 39
518 SESSION ON PRESENT PROBLEMS OF LEXICOLOGY AND SEMASIOLOGY. 518 JPRS-8132 P. 9
272 TEMS IN REAL AND INFORMATION LANGUAGES (WITH LIMITS IMPOSED ON THE COMBINING POWER OF THE EL 272 JPRS-893 P. 91
104 LIMITS OF APPLICABILITY OF MACHINE TRANSLATION. 1D4 JPRS-68 P. 30
633 ND PRESENTED IN RATIONAL NOMENCLATURE, INTO A LINEAR FORMULA. /HE NAME OF A COMPLEX COMPOU 633 JPRS-11483 P. 126
552 ON THE STATISTICAL LAWS OF LINGUISTIC DISTRIBUTIONS. 552 JPRS-8938 P. 23
129 HEGEL'S THEOREM AND LINGUISTIC PARADOXES. 129 JPRS-241 P. 25
6D6 ANALYSIS AND DEVELOPMENT OF A LINGUISTIC PATTERN. 606 JPRS-10721 P. 14
439 ON LINGUISTIC PROBABILITY. 439 JPRS-6445 P. 7
464 LINGUISTIC PROBABILITY. 464 JPRS-6543 P. 54
12B LATION. LINGUISTIC PROBLEMS CONNECTED WITH POETRY TRANS 128 JPRS-241 P. 24
105 CERTAIN LINGUISTIC PROBLEMS IN MACHINE TRANSLATION. 105 JPRS-68 P. 36
453 NGUISTICS. LINGUISTIC PROBLEMS OF CYBERNETICS AND STRUCTURAL LI 453 JPRS-6506
757 . THE LINGUISTIC PROBLEMS OF TRANSLATION OF POETRY 757 JPRS-13543 P. 448
126 HE THEORY OF PROBABILITY AND DETERMINATION OF LINGUISTIC RELATIONSHIP. T 126 JPRS-241 P. 22
377 THE LONG-TERM PLAN OF SOVIET LINGUISTIC RESEARCH DURING THE NEXT FEW YEARS. 377 JPRS-3629 P. 1
273 THE POSSIBILITIES OF AUTOMATION IN LINGUISTIC RESEARCH. 273 JPRS-893 P. 91
132 LINGUISTIC STATISTICS FROM RUSSIAN TEXTS. 132 JPRS-241 P. 30
224 L LINGUSITICS. A GENERAL LINGUISTIC THEORY OF TRANSLATION AND MATHEMATICA 224 JPRS-893 P. 1
465 PROBABILITY DETERMINATION OF LINGUISTIC TIME. 465 JPRS-6543 P. 57
417 INTRODUCTION ' (TO ' THEORETICAL PROBLEMS OF LINGUISTICS '). REMARKS ON THE ' 417 JPRS-6236 P. 12
418 OBLEMATIC REPORT ON ' THEORETICAL PROBLEMS OF LINGUISTICS '. CONCERNING THE PR 418 JPRS-6236 P. 29
213 MENIA. COMMISSION ON APPLIED LINGUISTICS AND MACHINE TRANSLATION SET UP IN AR 213 JPRS-662 P. 6
419 SION OF THE QUESTION OF STRUCTURAL METHODS IN LINGUISTICS AND OF MATHEMATICAL AND APPLIED LI 419 JPRS-6236 P. 36
227 LINGUISTICS AND THE RESULTS. 227 JPRS-893 P. 9
683 ANGUAGE SYSTEMS AND ITS MODERN PRACTICAL APP/ LINGUISTICS AS A THEORY OF RELATIONS BETWEEN L 683 JPRS-13173 P. 1
267 NFOR/ CONCERNING CERTAIN PROBLEMS OF CHEMICAL LINGUISTICS CONNECTED WITH MACHINE SEARCH FOR I 267 JPRS-893 P. 84
223 SOME PROBLEMS IN MATHEMATICAL LINGUISTICS CONNECTED WITH MACHINE TRANSLATION. 223 JPRS-893 P. 1
139 BLEMS AND METHODS OF CONTEMPORARY THEORETICAL LINGUISTICS IN ANCIENT INDIAN GRAMMATICAL WORKS 139 JPRS-241 P. 37
78D ATION. QUESTIONS ON MATHEMATICAL LINGUISTICS IN CONNECTION WITH MACHINE TRANSL 78D JPRS-13179D P. 12
343 EXPERIENCE AT THE CONFERENCE ON MATHEMATICAL LINGUISTICS IN LENINGRAD IN 1959). /THE USSR (343 JPRS-35D2 P. 4
49D E IN LINGUISTICS OF METHODS DEV/ THE PLACE OF LINGUISTICS IN THE SCIENTIFIC SYSTEM AND THE US 49D JPRS-6732 P. 1
364 ENT OF THE NATIONAL ECON/ PROBLEMS OF APPLIED LINGUISTICS IN THE SEVEN-YEAR PLAN FOR DEVELOPM 364 JPRS-3599 P. 1
49D STICS IN THE SCIENTIFIC SYSTEM AND THE USE IN LINGUISTICS OF METHODS DEVELOPED FOR OTHER SCIE 490 JPRS-6732 P. 1
315 NE LANGUAGE FOR AN INFORMATION MACHINE. LINGUISTICS PROBLEMS IN THE CREATION OF A MACHI 315 JPRS-215D P. 6
352 COUNCIL ON CYBERNETICS. LINGUISTICS SECTION FUNCTIONS UNDER SCIENTIFIC 352 JPRS-3597 P. 1
549 INTRODUCTION TO THE LINGUISTICS SESSION. 549 JPRS-8938 P. 11
295 A SURVEY OF STRUCTURAL LINGUISTICS. 295 JPRS-992 P. 1D
517 CONFERENCE ON STRUCTURAL AND MATHEMATICAL LINGUISTICS. 517 JPRS-8132 P. 1
314 THE SIGNIFICANCE OF MACHINE TRANSLATION TO LINGUISTICS. 314 JPRS-2150 P. 2
332 ON THE INTRODUCTION OF PROBABILITY INTO LINGUISTICS. 332 JPRS-33DD P. 1
416 THEORETICAL PROBLEMS OF LINGUISTICS. 416 JPRS-6236 P. 1
453 UISTIC PROBLEMS OF CYBERNETICS AND STRUCTURAL LINGUISTICS. LING 453 JPRS-6506
455 THE LATEST DEVELOPMENTS IN APPLIED LINGUISTICS. 455 JPRS-6507 P. 1
184 COMMITTEE FOR APPLIED LINGUISTICS. 184 JPRS-319 P. 21
113 THE VALUE OF MATHEMATICAL METHODS IN LINGUISTICS. 113 JPRS-241 P. 6
197 MEETING OF THE COMMITTEE ON APPLIED LINGUISTICS. 197 JPRS-487 P. 25
118 THE SIGNIFICANCE OF MACHINE TRANSLATION FOR LINGUISTICS. 118 JPRS-241 P. 13
198 THEORETICAL AND APPLIED LINGUISTICS. 198 JPRS-487 P. 25
2D6 MATHEMATICS ASSISTS LINGUISTICS. 2D6 JPRS-621 P. 1D
292 BASIC PROBLEMS IN APPLIED LINGUISTICS. 292 JPRS-991 P. 18

789 URGENT PROBLEMS OF STRUCTURAL LINGUISTICS. 789 JPRS-14252
281 INFORMATION THEORY AND LINGUISTICS. 281 JPRS-893 P. 102
390 ALL-UNION CONFERENCE ON MATHEMATICAL LINGUISTICS. 39D JPRS-3758 P. 66
394 INFORMATION THEORY AND LINGUISTICS. 394 JPRS-3796 P. 12
345 NEW PROBLEMS OF MATHEMATICAL METHODS IN LINGUISTICS. 345 JPRS-35D2 P. 23
493 THE APPLICATION OF STATISTICAL METHODS IN LINGUISTICS. 493 JPRS-6732 P. 32
548 PRACTICAL WORKS IN STATISTICAL LINGUISTICS. 548 JPRS-8938 P. 10
551 ELEMENTS OF MATHEMATICAL LINGUISTICS. 551 JPRS-8938 P. 18
553 PRACTICAL EXERCISES IN LINGUISTICS. 553 JPRS-8938 P. 27
354 NUARY 1959 PLENUM OF THE COMMITTEE ON APPLIED LINGUISTICS. JA 354 JPRS-3597 P. 3
776 INTERVUZ SCIENTIFIC CONFERENCE ON APPLIED LINGUISTICS. 776 JPRS-13761 P. 118
463 STRUCTURAL AND STATISTICAL METHODS IN MODERN LINGUISTICS. THE RELATIONSHIP 8ETWEEN 463 JPRS-6543 P. 43
34D ELOPMENT OF AUTOMATIC TRANSLATION AND APPLIED LINGUISTICS. ASSOCIATION FOR THE STUDY AND DEV 34D JPRS-3474
419 N LINGUISTICS AND OF MATHEMATICAL AND APPLIED LINGUISTICS. /QUESTION OF STRUCTURAL METHODS I 419 JPRS-6236 P. 36
225 AND THE PRINCIPLES OF COMPARATIVE HISTORICAL LINGUISTICS. /RELATIONS 8ETWEEN LANGUAGE SYSTEMS 225 JPRS-893 P. 3
515 N AND THE SEMINAR ON SEMIOTICS AND STRUCTURAL LINGUISTICS. /SOCIATION FOR MACHINE TRANSLATIO 515 JPRS-8D26 P. 57
355 SECTION ON ALLIED PROBLEMS OF PSYCHOLOGY AND LINGUISTICS, SOCIETY OF PSYCHOLOGISTS. 355 JPRS-3597 P. 8
514 W OF SAINT-MARIE'S BOOK DE LA NECESSITE D'UNE LINGUISTIQUE APPLIQUEE. REVIE 514 JPRS-8D26 P. 56
224 UISTIC THEORY OF TRANSLATION AND MATHEMATICAL LINGUSITICS. A GENERAL LING 224 JPRS-893 P. 1
540 STATISTICS OF TWO-LETTER COM8INATIONS IN LITERARY GEORGIAN. 54D JPRS-8929 P. 4
404 REVIEW OF A. KENT'S ' MACHINE LITERATURE SEARCHING AND TRANSLATION '. 4D4 JPRS-6D94 P. 26
671 OYED IN AN EXPERIMENTAL MECHANIZED SYSTEM FOR LITERATURE SEARCHING IN THE FIELD OF MECHANICS. /PL 671 JPRS-13D55
14D QUENCY OF LEXICAL UNITS IN ENGLISH GEOLOGICAL LITERATURE. THE FRE 14D JPRS-241 P. 39
369 IXES OF THE ARMENIAN LANGUAGE IN MATHEMATICAL LITERATURE. WORD-FORMING SUFF 369 JPRS-3599 P. 39
778 AUTOMATONS AND LIVING 8EINGS. 778 JPRS-13790 P. 1
646 SOME CONSTRUCTS IN THE LOGIC OF SINGLE-VALUED PREDICATES. 646 JPRS-11779
63D ND POSSI8ILITIES OF CONSTRUCTING MATHEMATICAL LOGIC THEORIES OF INFORMATION SEARCH SYSTEMS. 63D JPRS-11483 P. 17
221 RESEARCH AND EDUCATIONAL WORK IN THE FIELD OF LOGIC. URGENT TASKS OF SCIENTIFIC 221 JPRS-863
143 UCTURE. A LOGICAL ANALYSIS OF THE CONCEPT OF LANGUAGE STR 143 JPRS-241 P. 43
305 LOGICAL ANALYSIS OF THE PHONEME CONCEPT. 3D5 JPRS-1132
269 ON THE POSSI8ILITY OF UTILIZING INFORMATION- LOGICAL LANGUAGES FOR A MACHINE SEARCH OF THEOR 269 JPRS-893 P. 87
653 STRUCTIONS FOR A THREE- ADDRESS COMPUTING AND LOGICAL MACHINE WITH A FLOATING POINT. /YSTEM OF IN 653 JPRS-11985
279 AS THE COMPUTING DEVICE OF A GENERAL PURPOSE LOGICAL MACHINE. /EM-11 WITH MAGNETIC ELEMENTS 279 JPRS-893 P. 101
383 ATION. THE LOGICAL MODEL AS A MEANS OF SCIENTIFIC INVESTIG 383 JPRS-3731 P. 9
131 THE LOGICAL NATURE OF CONTEXT. 131 JPRS-241 P. 27
622 RANSFORMATION OF PROGRAMS FOR SOLVING COMPLEX LOGICAL PROBLEMS TO AN OPTIMAL FORM. ON THE T 622 JPRS-11088 P. 1
141 ONE APPROACH TO LOGICAL SEMANTICS. 141 JPRS-241 P. 40
629 CHINE LANGUAGE FOR AN INFORMATION MACHINE. LOGICAL-MATHEMATICAL PROBLEMS OF CREATING A MA 629 JPRS-11483 P. 2
377 RING THE NEXT FEW YEARS. THE LONG-TERM PLAN OF SOVIET LINGUISTIC RESEARCH DU 377 JPRS-3629 P. 1
665 OF FERRITE CORES WITH RECTANGULAR HYSTERESIS LOOPS AND METHODS OF MEASURING THEM. /SE PROPERTIES 665 JPRS-12133
389 THE JAPANESE TRANSLATION MACHINE ' YAMATO '. 389 JPRS-3758 P. 61
368 PROCESSING PREFIXES IN MACHINE ANALYSIS OF THE GEORGIAN LANGUAGE. 368 JPRS-3599 P. 33
771 MACHINE 8REAKDOWN OF THE GEORGIAN SENTENCE. 771 JPRS-13761 P. 74
813 A MACHINE CAPABLE OF CONVERSING. 813 JPRS-17184 P. 1
791 MACHINE DECIPHERING OF MAYAN MANUSCRIPTS. 791 JPRS-14318 P. 1
533 STRUCTURE OF CHEMICAL COMPOUNDS. MACHINE INPUT AND OUTPUT OF INFORMATION ON THE 533 JPRS-8479 P. 77
798 A MACHINE IS LEARNING TO READ. 798 JPRS-14782
247 WAYS OF CREATING A SELF-TEACHING MACHINE TRA/ MACHINE LANGUAGE AND THE PLANE OF CONTENT (ON 247 JPRS-893 P. 44
3D9 THE PROBLEM OF CONSTRUCTING A MACHINE LANGUAGE FOR AN INFORMATION MACHINE. 3D9 JPRS-1145 P. 1
315 LINGUISTICS PROBLEMS IN THE CREATION OF A MACHINE LANGUAGE FOR AN INFORMATION MACHINE. 315 JPRS-215D P. 6
629 LOGICAL-MATHEMATICAL PROBLEMS OF CREATING A MACHINE LANGUAGE FOR AN INFORMATION MACHINE. 629 JPRS-11483 P. 2
636 PROBLEMS IN CREATING A MACHINE LANGUAGE FOR GEOMETRY. 636 JPRS-11483 P. 154
631 PROBLEMS INVOLVED IN CREATING A MACHINE LANGUAGE FOR ORGANIC CHEMISTRY. 631 JPRS-11483 P. 42
681 OF SCIENCE. MACHINE LANGUAGES AS AN ELEMENT OF A UNIVERSAL CODE 681 JPRS-13172
279 OMPUTING DEVI/ THE HIGH SPEED GENERAL PURPOSE MACHINE LEM-11 WITH MAGNETIC ELEMENTS AS THE C 279 JPRS-893 P. 101
404 . REVIEW OF A. KENT'S ' MACHINE LITERATURE SEARCHING AND TRANSLATION ' 4D4 JPRS-6094 P. 26
397 THE TRANSLATION MACHINE OF P. P. TROYANSKIY. 397 JPRS-3797
348 THE TRANSLATION MACHINE OF P. P. TROYANSKIY. 348 JPRS-3532
644 SOME APPLICATIONS OF A SCHEME OF SYM8OLISM IN MACHINE PROGRAMMING. 644 JPRS-11701
5D5 A MACHINE READS FORGOTTEN SCRIPT. 5D5 JPRS-6997 P. 1
267 O8LEMS OF CHEMICAL LINGUISTICS CONNECTED WITH MACHINE SEARCH FOR INFORMATION. /ING CERTAIN PR 267 JPRS-893 P. 84
269 TILIZING INFORMATION- LOGICAL LANGUAGES FOR A MACHINE SEARCH OF THEOREMS AND DEDUCTION OF EFF 269 JPRS-893 P. 87
268 MACHINE SEARCH OF TITLES. 268 JPRS-893 P. 86
330 A MACHINE THAT READS ALOUD. 33D JPRS-3225 P. 10
762 EXPERIMENTS IN TRAINING A MACHINE TO DISTINGUISH VISUAL SHAPES. 762 JPRS-13694
367 ASPECT OF THE RUSSIAN VER8 FROM CONTEXT (IN MACHINE TRANSLATION). OETERMINING 367 JPRS-3599 P. 29
732 N OF HOMONYMY OF MORPHEMES DURING ANALYSIS IN MACHINE TRANSLATION). /AGE (FOR DISTINCTIO 732 JPRS-13514 P. 313
473 SSIAN NOUN. (CERTAIN PROBLEMS OF HOMONYMY IN MACHINE TRANSLATION). /E CASE SYSTEM OF THE RU 473 JPRS-6588 P. 1
144 LEM). ANCIENT TEXTS AND MACHINE TRANSLATION (A FORMULATION OF THE PRO8 144 JPRS-241 P. 44
679 SOME PROBLEMS OF MACHINE TRANSLATION A8ROAD. 679 JPRS-13135
585 AS (IN CONNECTION WITH THE CONSTRUCTION OF A MACHINE TRANSLATION ALGORITHM). /F RUSSIAN SYNTAGM 585 JPRS-1D429
241 SYM8OLIC RECORDING OF A MACHINE TRANSLATION ALGORITHM. 241 JPRS-893 P. 35
52D RUSSIAN-GEORGIAN MACHINE TRANSLATION ALGORITHM. 52D JPRS-8313
737 ND- ENCES 8ETWEEN LANGUAGE SYSTEMS. MACHINE TRANSLATION AND ESTA8LISHING CORRESPO 737 JPRS-13543 P. 57
11D THE METALANGUAGE OF MACHINE TRANSLATION AND ITS APPLICATION. 11D JPRS-241 P. 1
316 META-LANGUAGE OF MACHINE TRANSLATION AND ITS APPLICATION. 316 JPRS-215D P. 26
495 ENTIRE ISSUE OF YUGOSLAV JOURNAL DEVOTED TO MACHINE TRANSLATION AND LANGUAGE STATISTICS. 495 JPRS-6732 P. 46
249 RUCTION. INTERMEDIARY LANGUAGE FOR MACHINE TRANSLATION AND PRINCIPLES OF ITS CONST 249 JPRS-893 P. 52
373 957-1958. 8I8LIOGRAPHY OF ARTICLES ON MACHINE TRANSLATION AND RELATED DISCIPLINES, 1 373 JPRS-3599 P. 55
199 STEMS OF AGREEMENTS 8ETWEEN LANGUAGES. MACHINE TRANSLATION AND THE ESTA8LISHMENT OF SY 199 JPRS-487 P. 27
1D7 EDIARY LANGUAGE. MACHINE TRANSLATION AND THE PROBLEM OF AN INTERM 1D7 JPRS-68 P. 58
515 ONICLE OF THE MEETINGS OF THE ASSOCIATION FOR MACHINE TRANSLATION AND THE SEMINAR ON SEMIOTI 515 JPRS-8D26 P. 57
335 PROBLEMS OF WORK-ORDER IN RUSSIAN-CHINESE MACHINE TRANSLATION AND THEIR SOLUTIONS. 335 JPRS-3356
597 LL/ ESTA8LISHMENT OF SYNTACTIC CONNECTIONS IN MACHINE TRANSLATION 8Y THE AJDUKIEWICZ-8AR-HI 597 JPRS-1D576 P. 42
774 E RESEARCH UNIT, CAM8RIDGE,/ ESSAYS ON AND IN MACHINE TRANSLATION 8Y THE CAM8RIDGE LANGUAG 774 JPRS-13761 P. 102
51D FRENCH-TO-RUSSIAN MACHINE TRANSLATION EXPERIMENTS. 51D JPRS-8D26 P. 27
118 THE SIGNIFICANCE OF MACHINE TRANSLATION FOR LINGUISTICS. 118 JPRS-241 P. 13
142 RNATING STEMS IN CONSTRUCTING AN ALGORITHM OF MACHINE TRANSLATION FOR SPANISH (A STATISTICAL 142 JPRS-241 P. 42
288 GRAMMATICAL ANALYSIS IN MACHINE TRANSLATION FROM CHINESE INTO RUSSIAN. 288 JPRS-925 P. 83
755 AN ANALYSIS OF CLOSED CONSTRUCTIONS IN 8INARY MACHINE TRANSLATION FROM CHINESE TO RUSSIAN. 755 JPRS-13543 P. 423

756 AN ANALYSIS OF AUXILIARY WORDS IN 8INARY MACHINE TRANSLATION FROM CHINESE TO RUSSIAN. 756 JPRS-13543 P. 436
285 F THE OICTIONARY AND GRAMMATICAL ROUTINES FOR MACHINE TRANSLATION FROM ENGLISH INTO RUSSIAN. 285 JPRS-925 P. 36
170 AN ALGORITHM OF MACHINE TRANSLATION FROM ENGLISH INTO RUSSIAN. 170 JPRS-241 P. 71
209 PROBLEMS IN DISTINGUISHING HOMONYMS IN MACHINE TRANSLATION FROM ENGLISH INTO RUSSIAN. 209 JPRS-646 P. 19
106 ERTAIN QUESTIONS OF SYNTAX IN CONNECTION WITH MACHINE TRANSLATION FROM ENGLISH TO RUSSIAN. C 106 JPRS-68 P. 48
103 MACHINE TRANSLATION FROM FRENCH TO RUSSIAN. 103 JPRS-68 P. 9
655 TION OF THE PROGRAM. ON MACHINE TRANSLATION FROM FRENCH TO RUSSIAN, DESCRIP 655 JPRS-12046
205 MACHINE TRANSLATION FROM FRENCH. 205 JPRS-621 P. 1
210 . MACHINE TRANSLATION FROM HUNGARIAN INTO RUSSIAN 210 JPRS-646 P. 28
325 N. MACHINE TRANSLATION FROM JAPANESE INTO RUSSIA 325 JPRS-2150 P. 161
161 SOME PROBLEMS IN MACHINE TRANSLATION FROM JAPANESE INTO RUSSIAN. 161 JPRS-241 P. 63
289 SOME PRINCIPLES IN MACHINE TRANSLATION FROM JAPANESE INTO RUSSIAN. 289 JPRS-925 P. 93
512 FUL ACCOMPLISHMENT OF THE FIRST EXPERIMENT IN MACHINE TRANSLATION FROM RUSSIAN TO CHINESE. / 512 JPRS-8026 P. 51
284 ANALYSIS OF PUNCTUATION MARKS IN MACHINE TRANSLATION FROM RUSSIAN. 284 JPRS-925 P. 25
172 ANALYSIS OF PUNCTUATION MARKS DURING MACHINE TRANSLATION FROM RUSSIAN. 172 JPRS-241 P. 73
183 THE GENERAL PRINCIPLES OF MACHINE TRANSLATION FROM THE CHINESE LANGUAGE. 183 JPRS-319 P. 10
743 CTURE OF INDEPENDENT GRAMMATICAL ANALYSIS FOR MACHINE TRANSLATION FROM THE GERMAN LANGUAGE 743 JPRS-13543 P. 231
768 THE ALGORITHM FOR GRAMMATICAL ANALYSIS (FOR MACHINE TRANSLATION FROM THE RUSSIAN LANGUAGE 768 JPRS-13761 P. 28
344 PROBLEMS OF MACHINE TRANSLATION IN MOSCOW. 344 JPRS-3502 P. 16
379 CONFERENCE ON MACHINE TRANSLATION IN SWEDEN. 379 JPRS-3629 P. 17
303 . RESEARCH ON MACHINE TRANSLATION IN THE CHINESE PEOPLE'S REPUBLIC 303 JPRS-1131
343 THE CONFERENCE ON MATHEMATICAL LINGUISTICS/ MACHINE TRANSLATION IN THE USSR (EXPERIENCE AT 343 JPRS-3502 P. 4
720 SOME PROBLEMS OF MACHINE TRANSLATION IN THE USSR. 720 JPRS-13439
215 WORK ON MACHINE TRANSLATION IN THE USSR. 215 JPRS-662 P. 11
508 E REMARKS AND SUGGESTIONS RELATIVE TO WORK ON MACHINE TRANSLATION IN THE USSR. SOM 508 JPRS-8026 P. 1
657 SYNTHESIS OF FORMS OF RUSSIAN WORDS DURING MACHINE TRANSLATION INTO RUSSIAN. 657 JPRS-12047
201 CHINESE-TO-RUSSIAN MACHINE TRANSLATION IS PROGRESSING. 201 JPRS-487 P. 31
240 L LABORATORY FOR M/ DEVELOPMENT OF A SYMBOLIC MACHINE TRANSLATION LANGUAGE IN THE EXPERIMENTA 240 JPRS-893 P. 34
160 NG OF TELEGRAPHIC AND TELEPH/ APPLICATIONS OF MACHINE TRANSLATION METHODS TO THE LEXICAL CODI 160 JPRS-241 P. 62
159 GRAMMATICAL ANALYSIS FOR MACHINE TRANSLATION OF CHINESE INTO RUSSIAN. 159 JPRS-241 P. 60
307 MACHINE TRANSLATION OF CHINESE INTO RUSSIAN. 307 JPRS-1133
174 AN INTO RUSSIAN. MACHINE TRANSLATION OF COMPOUND NOUNS FROM GERM 174 JPRS-241 P. 76
286 TO RUSSIAN. MACHINE TRANSLATION OF GERMAN COMPOUND NOUNS IN 286 JPRS-925 P. 64
406 RUSSIAN-TO-GEORGIAN MACHINE TRANSLATION PROGRESSING. 406 JPRS-6094 P. 29
213 COMMISSION ON APPLIED LINGUISTICS AND MACHINE TRANSLATION SET UP IN ARMENIA. 213 JPRS-662 P. 6
116 INSTITUTE OF THE ACADEMY OF SCIENCES USSR. MACHINE TRANSLATION STUDIES IN THE MATHEMATICAL 116 JPRS-241 P. 8
314 THE SIGNIFICANCE OF MACHINE TRANSLATION TO LINGUISTICS. 314 JPRS-2150 P. 2
264 AGE. THE STRUCTURE OF SYNTHESIZING RULES IN MACHINE TRANSLATION USING AN INTERMEDIARY LANGU 264 JPRS-893 P. 81
625 ON THE RUSSIAN LANGUAGE IN MACHINE TRANSLATION WORK DONE ABROAD. 625 JPRS-11305
102 FUNDAMENTAL PROBLEMS OF MACHINE TRANSLATION. 102 JPRS-68 P. 1
708 ON MODELS OF SYNTAX FOR MACHINE TRANSLATION. 708 JPRS-13197
242 THE STRUCTURE OF INFORMATION FOR MACHINE TRANSLATION. 242 JPRS-893 P. 36
724 A DISCUSSION OF MACHINE TRANSLATION. 724 JPRS-13478
104 LIMITS OF APPLICABILITY OF MACHINE TRANSLATION. 104 JPRS-68 P. 30
274 SOME DECODING PROBLEMS IN MACHINE TRANSLATION. 274 JPRS-893 P. 96
105 CERTAIN LINGUISTIC PROBLEMS IN MACHINE TRANSLATION. 105 JPRS-68 P. 36
283 SOME GENERAL PROBLEMS IN MACHINE TRANSLATION. 283 JPRS-925 P. 1
111 SOME GENERAL PROBLEMS IN MACHINE TRANSLATION. 111 JPRS-241 P. 1
117 AN INTERMEDIARY LANGUAGE MODEL FOR MACHINE TRANSLATION. 117 JPRS-241 P. 11
121 SPECTRA OF PHONEMES AND THEIR USE IN MACHINE TRANSLATION. 121 JPRS-241 P. 17
147 WORK ON AN INDONESIAN-RUSSIAN ALGORITHM OF MACHINE TRANSLATION. 147 JPRS-241 P. 46
148 WORKS ON A VIETNAMESE-RUSSIAN ALGORITHM OF MACHINE TRANSLATION. 148 JPRS-241 P. 47
149 WORK ON A JAPANESE-RUSSIAN ALGORITHM OF MACHINE TRANSLATION. 149 JPRS-241 P. 48
153 WORK ON A NORWEGIAN-RUSSIAN ALGORITHM OF MACHINE TRANSLATION. 153 JPRS-241 P. 54
154 GLOSSARY STRUCTURE AND INFORMATION CODING FOR MACHINE TRANSLATION. 154 JPRS-241 P. 56
156 THE SYNTHESIS OF RUSSIAN VERB FORMS IN MACHINE TRANSLATION. 156 JPRS-241 P. 58
162 WORK ON THE RUSSO-ENGLISH ALGORITHM OF MACHINE TRANSLATION. 162 JPRS-241 P. 64
175 PROPER NOUNS IN MACHINE TRANSLATION. 175 JPRS-241 P. 77
176 WORK ON A BURMESE-RUSSIAN ALGORITHM OF MACHINE TRANSLATION. 176 JPRS-241 P. 78
177 WORK ON AN ARABIC-RUSSIAN ALGORITHM OF MACHINE TRANSLATION. 177 JPRS-241 P. 79
185 AN INTERMEDIARY LANGUAGE MODEL FOR MACHINE TRANSLATION. 185 JPRS-319 P. 25
189 SOVIET DEVELOPMENT IN MACHINE TRANSLATION. 189 JPRS-335
196 CONFERENCE ON MACHINE TRANSLATION. 196 JPRS-487 P. 21
219 SIMPLE EXPLANATION OF MACHINE TRANSLATION. 219 JPRS-729
443 FRENCH-TO-RUSSIAN MACHINE TRANSLATION. 443 JPRS-6492 P. 1
297 OCUMENTS OF THE FIRST ALL-UNION CONFERENCE ON MACHINE TRANSLATION. D 297 JPRS-1006
301 THE ANALYSIS OF JAPANESE IN MACHINE TRANSLATION. 301 JPRS-1130
342 PROBLEMS OF MACHINE TRANSLATION. 342 JPRS-3502 P. 1
539 ON ROUTINES FOR ANALYSIS OF GEORGIAN FOR MACHINE TRANSLATION. 539 JPRS-8929 P. 1
312 THE LENINGRAD ALL-UNIVERSITY SEMINAR ON MACHINE TRANSLATION. 312 JPRS-1145 P. 44
319 WORK ON A NORWEGIAN-RUSSIAN ALGORITHM OF MACHINE TRANSLATION. 319 JPRS-2150 P. 68
380 NEW PUBLICATION ON MACHINE TRANSLATION. 380 JPRS-3629 P. 18
388 THE CONJUNCTION I IN MACHINE TRANSLATION. 388 JPRS-3758 P. 52
594 ON THE STRUCTURE OF INFORMATION FOR MACHINE TRANSLATION. 594 JPRS-10576 P. 12
607 THE CULTURAL SIGNIFICANCE OF MACHINE TRANSLATION. 607 JPRS-10721 P. 31
736 ON THE FUNDAMENTAL USE OF SENSE IN MACHINE TRANSLATION. 736 JPRS-13543 P. 19
738 THE OPERATIONAL FORM OF AN ALGORITHM FOR MACHINE TRANSLATION. 738 JPRS-13543 P. 86
695 ON WORD FORMATIONS IN MACHINE TRANSLATION. 695 JPRS-13173 P. 261
730 MORPHOLOGICAL ANALYSIS IN MACHINE TRANSLATION. 730 JPRS-13514 P. 129
120 ERAL THEORY OF TRANSLATION IN CONNECTION WITH MACHINE TRANSLATION. A GEN 120 JPRS-241 P. 15
138 ENERAL PRINCIPLES IN COMPILING GLOSSARIES FOR MACHINE TRANSLATION. SOME G 138 JPRS-241 P. 36
163 N A HINDUSTANI (HINDI)-RUSSIAN ALGORITHM OF MACHINE TRANSLATION. WORK O 163 JPRS-241 P. 66
323 ON HINDUSTANI (HINDI)-RUSSIAN ALGORITHM OF MACHINE TRANSLATION. WORK 323 JPRS-2150 P. 149
318 RATING PROGRAM FOR AN INDONESIAN ALGORITHM OF MACHINE TRANSLATION. ROOT-SEPA 318 JPRS-2150 P. 61
223 MS IN MATHEMATICAL LINGUISTICS CONNECTED WITH MACHINE TRANSLATION. SOME PROBLE 223 JPRS-893 P. 1
320 AGE OF WORK ON AN ARABIC-RUSSIAN ALGORITHM OF MACHINE TRANSLATION. INITIAL ST 320 JPRS-2150 P. 79
182 ITH MACHINE TRANSLATION, THE POSSIBILITIES OF MACHINE TRANSLATION. EXPERIMENTS W 182 JPRS-319 P. 1
780 N MATHEMATICAL LINGUISTICS IN CONNECTION WITH MACHINE TRANSLATION. QUESTIONS O 780 JPRS-13790 P. 12
598 ION OF A FORMAL MORPHOLOGY IN CONNECTION WITH MACHINE TRANSLATION. THE CONSTRUCT 598 JPRS-10576 P. 50
294 DERLYING THE CONSTRUCTION OF A DICTIONARY FOR MACHINE TRANSLATION. THE PRINCIPLES UN 294 JPRS-992 P. 1

378 OMONYMS ANO METHOOS OF OISTINGUISHING THEM IN MACHINE TRANSLATION. VARIOUS TYPES OF H 378 JPRS-3629 P. 11
754 ERISTICS OF A JAPANESE-RUSSIAN OICTIONARY FOR MACHINE TRANSLATION. THE 8ASIC CHARACT 754 JPRS-13543 P. 413
317 OICTIONARY ANO THE CODING OF INFORMATION FOR MACHINE TRANSLATION. ON THE STRUCTURE OF A 317 JPRS-2150 P. 41
151 A GERMAN-RUSSIAN GLOSSARY OF POLYSEMANTS FOR MACHINE TRANSLATION. PRINCIPLES IN COMPILING 151 JPRS-241 P. 50
152 ANO GRAMMATICAL PROGRAMS FOR ENGLISH-RUSSIAN MACHINE TRANSLATION. /FEATURES OF THE GLOSSARY 152 JPRS-241 P. 51
119 GRAMMAR OF L. V. SHCHER8A ANO THE PRO8LEMS OF MACHINE TRANSLATION. /ACTIVE ' AND ' PASSIVE ' 119 JPRS-241 P. 13
446 HE PRO8LEM OF COMPILING A STEM OICTIONARY FOR MACHINE TRANSLATION. /ER8S IN CONNECTION WITH T 446 JPRS-6494 P. 1
275 CTION OF SPECIALIZED ELECTRONIC COMPUTERS FOR MACHINE TRANSLATION. /ES UNOERLYING THE CONSTRU 275 JPRS-893 P. 96
287 -RUSSIAN OICTIONARY OF POLYSEMANTIC WOROS FOR MACHINE TRANSLATION. /LES IN COMPILING A GERMAN 287 JPRS-925 P. 72
740 GURATIONAL ANALYSIS OF CHINESE TEXT MATTER IN MACHINE TRANSLATION. /M OF INOEPENOENT CONFI 740 JPRS-13543 P. 165
240 N LANGUAGE IN THE EXPERIMENTAL LABORATORY FOR MACHINE TRANSLATION. /M8OL1C MACHINE TRANSLATIO 240 JPRS-893 P. 34
324 ALYSIS IN THE VIETNAMESE-RUSSIAN ALGORITHM FOR MACHINE TRANSLATION. /MENTS OF INDEPENOENT AN 324 JPRS-2150 P. 154
322 HOLOGICAL ANALYSIS OF THE RUSSIAN LANGUAGE IN MACHINE TRANSLATION. /T OF PROGRAMS FOR A MORP 322 JPRS-2150 P. 99
447 TION ALGORITHM. FRENCH-TO-RUSSIAN MACHINE TRANSLATION. FRENCH-TO-RUSSIAN TRANSLA 447 JPRS-6494 P. 14
182 E TRANSLATION. EXPERIMENTS WITH MACHINE TRANSLATION, THE POSSI8ILITIES OF MACHIN 182 JPRS-319 P. 1
247 CONTENT (ON WAYS OF CREATING A SELF-TEACHING MACHINE TRANSLATOR). /NGUAGE ANO THE PLANE OF 247 JPRS-893 P. 44
203 SOVIETS SAY MACHINE TRANSLATORS TO 8E COMMON THING 8Y 1960. 203 JPRS-487 P. 33
653 NS FOR A THREE- AOORESS COMPUTING ANO LOGICAL MACHINE WITH A FLOATING POINT. /YSTEM OF INSTRUCTIO 653 JPRS-11985
663 THE UNIVERSALITY OF A CALCULATING MACHINE WITH POTENTIALLY INFINITE EXTERNAL MEMORY. 663 JPRS-12050
214 THE PRO8LEM OF AN INFORMATION MACHINE. 214 JPRS-662 P. 7
661 THE TRANSLATING MACHINE. 661 JPRS-12049
702 ME PRELIMINARY REQUIREMENTS FOR A TRANSLATING MACHINE. SO 702 JPRS-13194
503 MECHANICAL TRANSLATION MACHINE. 503 JPRS-6968
496 TRANSLATION 8Y AN ELECTRONIC MACHINE. 496 JPRS-6732 P. 48
410 THEORY OF PATTERN RECOGNITION ANO A READING MACHINE. 410 JPRS-6135 P. 49
614 ALGORITHM TO A8RIDGE GERMAN FOR INPUT INTO A MACHINE. AN 614 JPRS-10808 P. 7
704 ISH-TO-RUSSIAN TRANSLATIONS ON THE ' STRELA ' MACHINE. EXPERIMENTAL ENGL 704 JPRS-13195
635 VEO IN USING SEMANTIC 8ONOS IN AN INFORMATION MACHINE. PRO8LEMS INVOL 635 JPRS'11483 P. 150
309 RUCTING A MACHINE LANGUAGE FOR AN INFORMATION MACHINE. THE PRO8LEM OF CONST 309 JPRS-1145 P. 1
767 NGUAL TRANSLATION OF NUMERALS ON THE ' URAL ' MACHINE. EXPERIMENT OF MULTILI 767 JPRS-13761 P. 19
315 TION OF A MACHINE LANGUAGE FOR AN INFORMATION MACHINE. LINGUISTICS PRO8LEMS IN THE CREA 315 JPRS-2150 P. 6
629 REATING A MACHINE LANGUAGE FOR AN INFORMATION MACHINE. LOGICAL-MATHEMATICAL PRO8LEMS OF C 629 JPRS-11483 P. 2
649 NGTH ANO THE FREQUENCY OF RANOOM SLIPS OF THE MACHINE. /TIME OF CALCULATION ON THE STEP LE 649 JPRS-11844 P. 15
279 COMPUTING OEVICE OF A GENERAL PURPOSE LOGICAL MACHINE. /EM-11 WITH MAGNETIC ELEMENTS AS THE 279 JPRS-893 P. 101
202 THE ASSOCIATION FOR MACHINE-TRANSLATION PROBLEMS. 202 JPRS'487 P. 32
811 STUOY OF AN ALGORITHM FOR THE RECOGNITION OF MACHINE-WRITTEN SYM8OLS. 811 JPRS-16343
605 MACHINES ARE LEARNING LANGUAGES. 605 JPRS-10721 P. 1
710 THE PRO8LEM OF SELF-TEACHING MACHINES FOR PROCESSING SPOKEN INFORMATION. 710 JPRS-13198
360 TIONS. METHOO OF USING PUNCH CARO MACHINES FOR STATISTICAL ANALYSIS OF COMMUNICA 360 JPRS-3598 P. 11
187 TS FOR THE UTILIZATION OF INFORMATION-LOGICAL MACHINES IN CHEMISTRY (USSR). (REPORTS TO THE SYMP 187 JPRS-331
712 ES TO A8STRACT JO/ THE USE OF 8ULL PUNCH CARO MACHINES TO COMPILE ISSUE-8Y-ISSUE ANO ANNUAL INOEX 712 JPRS-13253
651 E PRO8LEMS OF SYNTHESIS FOR AUTOMATIC OIGITAL MACHINES. SOM 651 JPRS-11911
659 REALIZA8LE SEQUENCES IN FINAL AUTOMATIC MACHINES. 659 JPRS-12048
456 SEMINAR ON READING MACHINES. 456 JPRS-6507 P. 11
787 THE NUMBER OF STATES OF A CLASS OF SEQUENTIAL MACHINES. REDUCING 787 JPRS-14195
802 THE RECOGNITION OF SPEECH SOUNOS 8Y AUTOMATIC MACHINES. EXPERIMENTS IN 802 JPRS-15754
108 F OEVELOPMENT ANO CONSTRUCTION OF INFORMATION MACHINES. CONFERENCE ON THE PRO8LEM O 108 JPRS-68 P. 68
217 SMALL GENERAL-PURPOSE OIGITAL COMPUTER USING MAGNETIC (FERRITE) ELEMENTS. LEM-1 217 JPRS-705
279 IGH SPEED GENERAL PURPOSE MACHINE LEM-11 WITH MAGNETIC ELEMENTS AS THE COMPUTING OEVICE OF A 279 JPRS-893 P. 101
152 ROGRAMS FOR ENGLISH-RUSSIAN MACHINE TRANSLAT/ MAIN FEATURES OF THE GLOSSARY ANO GRAMMATICAL P 152 JPRS-241 P. 51
589 PUTER. PRELIM/ INVESTIGATION OF ANCIENT MAYAN MANUSCRIPTS WITH THE AIO OF AN ELECTRONIC COM 589 JPRS-10508 P. 10
587 UTER. METHOOS. INVESTIGATION OF ANCIENT MAYAN MANUSCRIPTS WITH THE AIO OF AN ELECTRONIC COMP 587 JPRS-10508 P. 1
588 UTER. ALGORIT/ INVESTIGATION OF ANCIENT MAYAN MANUSCRIPTS WITH THE AIO OF AN ELECTRONIC COMP 588 JPRS-10508 P. 6
791 MACHINE DECIPHERING OF MAYAN MANUSCRIPTS. 791 JPRS-14318 P. 1
583 1960. REPORT ON THE WORK OF G.E.O.S.H. (MARC BLOCH ASSOCIATION) OURING FIRST QUARTER 583 JPRS-10380 P. 6
572 1960. REPORT ON THE WORK OF G.E.O.S.H. (MARC BLOCH ASSOCIATION) OURING SECONO QUARTER 572 JPRS-10361 P. 2
233 OF O. S. KULAGI/ ON THE NOTION OF A ' SET OF MARKEO PHRASES ' IN THE THEORETICAL SET CONCEPT 233 JPRS-893 P. 24
172 ANALYSIS OF PUNCTUATION MARKS OURING MACHINE TRANSLATION FROM RUSSIAN. 172 JPRS-241 P. 73
284 ANALYSIS OF PUNCTUATION MARKS IN MACHINE TRANSLATION FROM RUSSIAN. 284 JPRS-925 P. 25
262 NGUAGE INTO INTERMEOIARY LANGUAGE (ON GERMAN MATERIAL). CONVERSION OF INPUT LA 262 JPRS-893 P. 78
263 UAGE INTO INTERMEOIARY LANGUAGE (ON ARMENIAN MATERIAL). CONVERSION OF INPUT LANG 263 JPRS-893 P. 78
171 A OEVICE FOR THE READING OF ORDINARY PRINTED MATERIAL BY THE BLIND. 171 JPRS-241 P. 72
468 ON THE RUSSIAN FREQUENCY OICTIONARY, BASED ON MATERIAL FROM MATHEMATICS TEXTS. 468 JPRS-6543 P. 86
419 N OF STRUCTURAL METHOOS IN LINGUISTICS ANO OF MATHEMATICAL ANO APPLIED LINGUISTICS. /QUESTIO 419 JPRS-6236 P. 36
116 S USSR. MACHINE TRANSLATION STUDIES IN THE MATHEMATICAL INSTITUTE OF THE ACAOEMY OF SCIENCE 116 JPRS-241 P. 8
245 OF TRANSLATION ALGORITHMS. FORMAL MATHEMATICAL LANGUAGE MOOELS ANO THE STRUCTURE 245 JPRS-893 P. 42
246 THE CONSTRUCTION OF MATHEMATICAL LANGUAGE MOOELS. 246 JPRS-893 P. 43
223 TRANSLATION. SOME PRO8LEMS IN MATHEMATICAL LINGUISTICS CONNECTED WITH MACHINE 223 JPRS-893 P. 1
780 ACHINE TRANSLATION. QUESTIONS ON MATHEMATICAL LINGUISTICS IN CONNECTION WITH M 780 JPRS-13790 P. 12
343 IN THE USSR (EXPERIENCE AT THE CONFERENCE ON MATHEMATICAL LINGUISTICS IN LENINGRAD IN 1959) 343 JPRS-3502 P. 4
517 CONFERENCE ON STRUCTURAL ANO MATHEMATICAL LINGUISTICS. 517 JPRS-8132 P. 1
390 ALL-UNION CONFERENCE ON MATHEMATICAL LINGUISTICS. 390 JPRS-3758 P. 66
551 ELEMENTS OF MATHEMATICAL LINGUISTICS. 551 JPRS-8938 P. 18
224 GENERAL LINGUISTIC THEORY OF TRANSLATION ANO MATHEMATICAL LINGUSITICS. A 224 JPRS-893 P. 1
369 -FORMING SUFFIXES OF THE ARMENIAN LANGUAGE IN MATHEMATICAL LITERATURE. WORO 369 JPRS-3599 P. 39
630 CUMENTATION ANO POSSI8ILITIES OF CONSTRUCTING MATHEMATICAL LOGIC THEORIES OF INFORMATION SE 630 JPRS-11483 P. 17
494 THE OEVELOPMENT OF STRUCTURAL ANO MATHEMATICAL METHOOS IN LANGUAGE RESEARCH. 494 JPRS-6732 P. 42
113 THE VALUE OF MATHEMATICAL METHOOS IN LINGUISTICS. 113 JPRS-241 P. 6
345 NEW PRO8LEMS OF MATHEMATICAL METHOOS IN LINGUISTICS. 345 JPRS-3502 P. 23
441 ON THE OEVELOPMENT OF STRUCTURAL ANO MATHEMATICAL METHOOS OF LANGUAGE RESEARCH. 441 JPRS-6445 P. 18
232 PASIGRAPHY WITH THE MATHEMATICAL SIGNS OF TIROYAN. 232 JPRS-893 P. 23
511 ATION OF GRAMMATICAL CONFIGURATION IN ENGLISH MATHEMATICAL TEXT. STATISTICAL INVESTIG 511 JPRS-8026 P. 40
167 SYNTACTIC CONNECTIONS FOR FORMULAS IN RUSSIAN MATHEMATICAL TEXTS. OETERMINATION OF 167 JPRS-241 P. 68
691 SYNTACTIC CONNECTIONS FOR FORMULAS IN RUSSIAN MATHEMATICAL TEXTS. ESTA8LISHMENT OF 691 JPRS-13173 P. 203
627 MATHEMATICS ANO LANGUAGE. 627 JPRS-11412
206 MATHEMATICS ASSISTS LINGUISTICS. 206 JPRS-621 P. 10
513 REVIEW OF LAM8EK'S 8OOK THE MATHEMATICS OF SENTENCE STRUCTURE. 513 JPRS-8026 P. 53
546 INTROOUCTION TO THE MATHEMATICS SESSION. 546 JPRS-8938 P. 6
468 FREQUENCY OICTIONARY, BASED ON MATERIAL FROM MATHEMATICS TEXTS. ON THE RUSSIAN 468 JPRS-6543 P. 86
266 AN INFORMATION LANGUAGE FOR MATHEMATICS. 266 JPRS-893 P. 83

726 LECTRONI/ THE DETERMINATION OF EIGENVALUES OF MATRICES BY SUCCESSIVE DIAGONALIZATION ON AN E 726 JPRS-13514 P. 1
74D DENT CONFIGURATIONAL ANALYSIS OF CHINESE TEXT MATTER IN MACHINE TRANSLATION. /M OF INOEPEN 740 JPRS-13543 P. 165
807 INATIONS THROUGH STATISTICAL ANALYSIS OF TEXT MATTER. DETERMINING LETTER COM8 807 JPRS-15839 P. 20
752 NCES IN INOEPENDENT SYNTHESIS OF RUSSIAN TEXT MATTER. THE CONSTRUCTION OF SENTE 752 JPRS-13543 P. 376
742 Y DURING INOEPENOENT ANALYSIS OF CHINESE TEXT MATTER. ON SOLVING CONVERSION HOMONYM 742 JPRS-13543 P. 217
741 SARY FOR INDEPENDENT ANALYSIS OF CHINESE TEXT MATTER. THE STRUCTURE AND NATURE OF A GLOS 741 JPRS-13543 P. 2D9
739 AUTOMATIC ANALYSIS OF RUSSIAN SCIENTIFIC TEXT MATTER. /ARD OPERATORS FOR AN ALGORITHM FOR 739 JPRS-13543 P. 103
731 STEMS FOR AUTOMATIC ANALYSIS OF RUSSIAN TEXT MATTER. /PROACH TO THE OETERMINATION OF VERB 731 JPRS-13514 P. 303
589 IC COMPUTER. PRELIM/ INVESTIGATION OF ANCIENT MAYAN MANUSCRIPTS WITH THE AID OF AN ELECTRON 589 JPRS-1050B P. 10
587 C COMPUTER. METHOOS. INVESTIGATION OF ANCIENT MAYAN MANUSCRIPTS WITH THE AIO OF AN ELECTRONI 587 JPRS-10508 P. 1
588 C COMPUTER. ALGORIT/ INVESTIGATION OF ANCIENT MAYAN MANUSCRIPTS WITH THE AIO OF AN ELECTRONI 588 JPRS-105D8 P. 6
791 MACHINE DECIPHERING OF MAYAN MANUSCRIPTS. 791 JPRS-14318 P. 1
122 AN O8JECTIVE INVESTIGATION OF MEANING ASSOCIATIONS. 122 JPRS-241 P. 19
435 THE NATURE OF THE MEANING OF THE LANGUAGE SIGN. 435 JPRS-6347 P. 16
673 LANGUAGE BASED ON STEP-8Y-STEP CODING OF THE MEANINGS OF TERMS. /A VOCA8ULARY OF AN INFORMATION 673 JPRS-13D56
665 H RECTANGULAR HYSTERESIS LOOPS AND METHOOS OF MEASURING THEM. /SE PROPERTIES OF FERRITE CORES WIT 665 JPRS-12133
8DD MECHANICAL PATENT SEARCHER. 800 JPRS-15429
5D3 MECHANICAL TRANSLATION MACHINE. 503 JPRS-6968
671 STEM FOR LITERATURE SEARCHING IN THE FIELD OF MECHANICS. /PLOYED IN AN EXPERIMENTAL MECHANIZED SY 671 JPRS-13055
4D3 INKIN DEFENDS DOCTORAL DISSERTATION ON SPEECH MECHANISM. N. I. ZH 403 JPRS-6094 P. 2D
8D6 RMATION. MECHANIZATION OF SORTING LARGE VOLUMES OF INFO 8D6 JPRS-15839 P. 1
671 ON LANGUAGE TO BE EMPLOYEO IN AN EXPERIMENTAL MECHANIZED SYSTEM FOR LITERATURE SEARCHING IN THE F 671 JPRS-13D55
173 OF COMPLEX SENTENCES AND CLAUSES WITH SIMILAR MEMBERS. /PROBLEMS CONNECTED WITH THE ANALYSIS 173 JPRS-241 P. 75
46D STATISTICAL METHODS TO OETERMINE THE PHONETIC MEMBERSHIP OF AN INOIVIDUAL VOWEL SOUND. /OF 460 JPRS-6543 P. 21
329 THE MEMORY ASKS FOR HELP. 329 JPRS-3225 P. 1
775 IN MEMORY OF I. A. SOKOLYANSKIY. 775 JPRS-13761 P. 116
663 NG MACHINE WITH POTENTIALLY INFINITE EXTERNAL MEMORY. THE UNIVERSALITY OF A CALCULATI 663 JPRS-12D50
187 USSR). (REPORTS TO THE SYMPOSIUM AT THE 8TH MENDELEYEV CONGRESS ON GENERAL AND APPLIED CHEMISTRY 187 JPRS-331
492 AUTOMATIC LEXICAL CODING OF MESSAGES. 492 JPRS-6732 P. 23
316 PPLICATION. META-LANGUAGE OF MACHINE TRANSLATION AND ITS A 316 JPRS-2150 P. 26
11D ICATION. THE METALANGUAGE OF MACHINE TRANSLATION AND ITS APPL 110 JPRS-241 P. 1
413 CONCEPT. METHOOOLOGICAL FOUNOATIONS OF S. K. SHAUMYAN'S 413 JPRS-6152 P. 7
383 THE LOGICAL MOOEL AS A MEANS OF SCIENTIFIC INVESTIGATION. 383 JPRS-3731 P. 9
117 AN INTERMEDIARY LANGUAGE MODEL FOR MACHINE TRANSLATION. 117 JPRS-241 P. 11
185 AN INTERMEDIARY LANGUAGE MODEL FOR MACHINE TRANSLATION. 185 JPRS-319 P. 25
237 CONCERNING ONE MOOEL OF A GERMAN SIMPLE SENTENCE. 237 JPRS-893 P. 2B
234 PROBABILITY MOOEL OF A SENTENCE. 234 JPRS-B93 P. 25
235 TOWARO A PROBABILITY MOOEL OF A SENTENCE. 235 JPRS-893 P. 27
578 PROGRAM OF CONFLICT. MOOEL OF CONFLICT. 57B JPRS-10367 P. 13
770 SOME SPECIFICATIONS OF THE ZIPF PROBABILITY MOOEL. 770 JPRS-13761 P. 65
228 ICAL AND THEORETICAL-SET STRUCTURE. MOOELING A LANGUAGE ON THE BASIS OF ITS STATIST 228 JPRS-B93 P. 12
564 ELECTRIC MOOELING--A NEW OIVISION OF RAOIOELECTRONICS. 564 JPRS-B950
245 HMS. FORMAL MATHEMATICAL LANGUAGE MOOELS AND THE STRUCTURE OF TRANSLATION ALGORIT 245 JPRS-893 P. 42
708 ON MOOELS OF SYNTAX FOR MACHINE TRANSLATION. 708 JPRS-13197
246 THE CONSTRUCTION OF MATHEMATICAL LANGUAGE MOOELS. 246 JPRS-893 P. 43
226 PRAGUE TYPOLOGY AND LANGUAGE MOOELS. 226 JPRS-893 P. 8
758 ON THE ACCEPTABILITY OF PHONOLOGICAL MOOELS. 758 JPRS-13543 P. 481
732 IAN LANGUAGE (FOR OISTINCTION OF HOMONYMY OF MORPHEMES OURING ANALYSIS IN MACHINE TRANSLA 732 JPRS-13514 P. 313
730 N. MORPHOLOGICAL ANALYSIS IN MACHINE TRANSLATIO 730 JPRS-13514 P. 129
733 ES OF CODING AND PROGRAMMING AN ALGORITHM FOR MORPHOLOGICAL ANALYSIS OF THE RUSSIAN LANGUA 733 JPRS-13514 P. 330
322 IN MACHINE TRAN/ A PROJECT OF PROGRAMS FOR A MORPHOLOGICAL ANALYSIS OF THE RUSSIAN LANGUAGE 322 JPRS-2150 P. 99
749 GE. ON AN ALGORITHM FOR INOEPENOENT MORPHOLOGICAL ANALYSIS OF THE SWEDISH LANGUA 749 JPRS-13543 P. 338
168 NG ENGLISH TEXTS. ELIMINATION OF MORPHOLOGICAL AND SYNTACTIC HOMONYMY IN ANALYZI 168 JPRS-241 P. 69
732 LANGUAGE (FOR OISTINCTION OF HOMONYMY O/ THE MORPHOLOGICAL TYPES OF STEMS IN THE RUSSIAN 732 JPRS-13514 P. 313
598 TION. THE CONSTRUCTION OF A FORMAL MORPHOLOGY IN CONNECTION WITH MACHINE TRANSLA 59B JPRS-10576 P. 50
593 CERTAIN THEOREMS OF FORMAL MORPHOLOGY. 593 JPRS-10576 P. 1
344 PROBLEMS OF MACHINE TRANSLATION IN MOSCOW. 344 JPRS-3502 P. 16
4D5 FIRST MT EXPERIMENT FROM RUSSIAN INTO CHINESE. 405 JPRS-6094 P. 28
353 SPRING 1959 ACTIVITIES OF ASSOCIATION FOR MT IN THE USSR. 353 JPRS-3597 P. 2
782 A METHOO OF SYNTHESIZING SENTENCES IN MT ON THE BASIS OF SYNTAGMATIC ANALYSIS. 782 JPRS-13790 P. 49
357 ACTIVITIES OF SOME SOVIET MT PERSONALITIES. 357 JPRS-3597 P. 10
767 URAL ' MACHINE. EXPERIMENT OF MULTILINGUAL TRANSLATION OF NUMERALS ON THE ' 767 JPRS-13761 P. 19
446 LEM OF COMP/ SOME OATA ON THE OISTRIBUTION OF MULTIPLE-STEM VERBS IN CONNECTION WITH THE PROB 446 JPRS-6494 P. 1
603 QUATIONS, AND APPLICATIONS. MULTIPLICATIVE PROCESSES, STOCHASTIC OIFFERENTIAL E 603 JPRS-10679
633 ONAL NOMENCL/ AN ALGORITHM FOR CONVERTING THE NAME OF A COMPLEX COMPOUND PRESENTED IN RATI 633 JPRS-11483 P. 126
634 CHES TO THE TRANSLATING OF INORGANIC COMPOUND NAMES INTO FORMULAS. ALGORITHMIC APPROA 634 JPRS-11483 P. 134
638 MATION OF THE TRANSLATION OF ORGANIC COMPOUND NAMES INTO STANOARD FORM AND STRUCTURAL FORM 638 JPRS-11483 P. 171
638 FORM AND STRUCTURAL FORMULAS INTO SYSTEMATIC NAMES. /ORGANIC COMPOUND NAMES INTO STANOARD 638 JPRS-11483 P. 171
364 IN THE SEVEN-YEAR PLAN FOR OEVELOPMENT OF THE NATIONAL ECONOMY OF THE USSR. /IED LINGUISTICS 364 JPRS-3599 P. 1
514 REVIEW OF SAINT-MARIE'S BOOK OE LA NECESSITE O'UNE LINGUISTIQUE APPLIQUEE. 514 JPRS-8026 P. 56
377 PLAN OF SOVIET LINGUISTIC RESEARCH OURING THE NEXT FEW YEARS. THE LONG-TERM 377 JPRS-3629 P. 1
633 E OF A COMPLEX COMPOUND PRESENTED IN RATIONAL NOMENCLATURE, INTO A LINEAR FORMULA. /HE NAM 633 JPRS-11483 P. 126
559 SOME PROBLEMS IN PROCESSING NONNUMERICAL INFORMATION. 559 JPRS-B938 P. 45
259 IN RUSSIAN SENTENCES IN CONNECTION WITH THE/ NORMALIZING THE ORDER OF PREPOSITIONAL PHRASES 259 JPRS-893 P. 75
319 TION. WORK ON A NORWEGIAN-RUSSIAN ALGORITHM OF MACHINE TRANSLA 319 JPRS-2150 P. 6B
153 ION. WORK ON A NORWEGIAN-RUSSIAN ALGORITHM OF MACHINE TRANSLAT 153 JPRS-241 P. 54
632 FORMULAS IN ORGANIC CHEMISTRY INTO CANONICAL NOTATION. /GORITHM FOR TRANSLATING STRUCTURAL 632 JPRS-11483 P. 63
545 HISTORICAL NOTES ABOUT THE SYSTEMS OF OOCUMENTATION. 545 JPRS-B938 P. 4
432 NEWS OF ATALA. ANO NOTES AND OISCUSSIONS. 432 JPRS-6240 P. 17
231 NOTES ON THE CASE SYSTEM OF RUSSIAN NOUNS. 231 JPRS-893 P. 21
233 EORETICAL SET CONCEPT OF O. S. KULAGI/ ON THE NOTION OF A ' SET OF MARKED PHRASES ' IN THE TH 233 JPRS-B93 P. 24
430 ON THE NOTION OF CONGRUENCE. 430 JPRS-6240 P. 8
500 OF LANGUAGE. ON SOME NOTIONS OF THE SO-CALLED SET-THEORY CONCEPTION 500 JPRS-6938 P. 1
473 OESCRIPTION OF THE CASE SYSTEM OF THE RUSSIAN NOUN. (CERTAIN PROBLEMS OF HOMONYMY IN MACHINE 473 JPRS-6588 P. 1
257 NGUAGE. THE CATEGORIES OF NUMBER IN NOUNS AND TENSE IN VERBS IN THE INTERMEDIARY LA 257 JPRS-893 P. 73
700 SOME NUMERICAL OATA PERTAINING TO FORMS OF NOUNS AND VERBS OF RUSSIAN LANGUAGE. 700 JPRS-13173 P. 339
180 ETWEEN THIRO PERSON PERSONAL PRONOUNS AND THE NOUNS FOR WHICH THEY SUBSTITUTE. CORRELATION B 180 JPRS-241 P. 82
174 MACHINE TRANSLATION OF COMPOUND NOUNS FROM GERMAN INTO RUSSIAN. 174 JPRS-241 P. 76
175 PROPER NOUNS IN MACHINE TRANSLATION. 175 JPRS-241 P. 77
286 MACHINE TRANSLATION OF GERMAN COMPOUND NOUNS INTO RUSSIAN. 286 JPRS-925 P. 64

231 NOTES ON THE CASE SYSTEM OF RUSSIAN NOUNS. 231 JPRS-893 P. 21
470 ATIONSHIP 8ETWEEN ENOING AND GENOER OF FRENCH NOUNS. STATISTICS ON THE REL 470 JPRS-6543 P. 104
692 APOSITIONS IN THE INFLEXION SYSTEM OF RUSSIAN NOUNS. ON REOUNDANCY OF CERTAIN CONTR 692 JPRS-13173 P. 213
609 ON OF ALGORITHMS FOR THE TRANSLATION OF WHOLE NUM8ER DESIGNATIONS FROM 1 TO 999999.COMPOSITI 609 JPRS-10777 P. 1
257 MEOIARY LANGUAGE. THE CATEGORIES OF NUM8ER IN NOUNS AND TENSE IN VER8S IN THE INTER 257 JPRS-893 P. 73
787 REOUCING THE NUM8ER OF STATES OF A CLASS OF SEQUENTIAL MACHINES. 787 JPRS-14195
767 EXPERIMENT OF MULTILINGUAL TRANSLATION OF NUMERALS ON THE ' URAL ' MACHINE. 767 JPRS-13761 P. 19
700 AND VERBS OF RUSSIAN LANGUAGE. SOME NUMERICAL OATA PERTAINING TO FORMS OF NOUNS 700 JPRS-13173 P. 339
122 . AN O8JECTIVE INVESTIGATION OF MEANING ASSOCIATIONS 122 JPRS-241 P. 19
738 TRANSLATION. THE OPERATIONAL FORM OF AN ALGORITHM FOR MACHINE 738 JPRS-13543 P. 86
311 AND AUTOMATION OF THE PROCESS OF PROGRAMMIN/ OPERATOR OESCRIPTION OF TRANSLATION ALGORITHMS 311 JPRS-1145 P. 27
365 OPERATOR OESCRIPTION OF TRANSLATION ALGORITHMS. 365 JPRS-3599 P. 5
385 OPERATOR OESCRIPTION OF TRANSLATION ALGORITHMS. 385 JPRS-3758 P. 1
239 OPERATOR OESCRIPTION OF TRANSLATION ALGORITHMS. 239 JPRS-893 P. 33
739 LYSIS OF RUSSIAN SCIENTIFIC TEXT/ ON STANDARO OPERATORS FOR AN ALGORITHM FOR AUTOMATIC ANA 739 JPRS-13543 P. 103
722 TOMATIC SYNTACTICAL ANALYSIS). TWO OPERATORS FOR ESTA8LISHING CORRESPONDENCES (FOR AU 722 JPRS-13444
667 TRONG GOVERNMENT ' (FOR AUTOMATIC SYNTA/ TWO OPERATORS FOR PROCESSING WORO COM8INATIONS WITH ' S 667 JPRS-12441
622 MS FOR SOLVING COMPLEX LOGICAL PROBLEMS TO AN OPTIMAL FORM. ON THE TRANSFORMATION OF PROGRA 622 JPRS-11088 P. 1
272 ORMATION LANGUAGES (WITH LIMITS IMPOSED ON/ OPTIMUM CODING OF COMPLEX ITEMS IN REAL AND INF 272 JPRS-893 P. 91
276 THE PRINCIPLES AND DEVELOPMENT OF DEVICES FOR ORAL OUTPUT OF INFORMATION. INVESTIGATION OF 276 JPRS-893 P. 97
136 A SYSTEM OF RECORDING SPEECH FOR ORAL TRANSLATION. 136 JPRS-241 P. 34
595 ERMINATION OF TYPES OF COORDINATION (UND ANO ORDER). FORMAL OET 595 JPRS-10576 P. 22
772 TENCES. WORO ORDER IN INDEPENDENT SYNTHESIS OF RUSSIAN SEN 772 JPRS-13761 P. 84
259 NCES IN CONNECTION WITH THE/ NORMALIZING THE ORDER OF PREPOSITIONAL PHRASES IN RUSSIAN SENTE 259 JPRS-893 P. 75
753 RUSSIAN LANGUAGE SYNTHESIS. AN ALGORITHM FOR ORDERING WORDS IN A SENTENCE IN INDEPENDENT 753 JPRS-13543 P. 387
171 A OEVICE FOR THE READING OF ORDINARY PRINTED MATERIAL 8Y THE BLIND. 171 JPRS-241 P. 72
632 ORITHM FOR TRANSLATING STRUCTURAL FORMULAS IN ORGANIC CHEMISTRY INTO CANONICAL NOTATION. /G 632 JPRS-11483 P. 63
631 S INVOLVED IN CREATING A MACHINE LANGUAGE FOR ORGANIC CHEMISTRY. PRO8LEM 631 JPRS-11483 P. 42
526 SYSTEMS FOR RECORDING STRUCTURAL FORMULAS IN ORGANIC CHEMISTRY. ON CERTAIN 526 JPRS-8372 P. 36
529 THE PROBLEM OF THE AUTOMATIC COMPILATION OF ORGANIC COMPOUND INDEXES FOR CHEMICAL A8STRACT 529 JPRS-8479 P. 9
638 O STRUCTURA/ AUTOMATION OF THE TRANSLATION OF ORGANIC COMPOUND NAMES INTO STANDARD FORM AN 638 JPRS-11483 P. 171
530 SSING I/ SYSTEMS FOR RECORDING INFORMATION ON ORGANIC REACTIONS AND CERTAIN METHODS OF PROCE 530 JPRS-8479 P. 23
530 CERTAIN METHODS OF PROCESSING INFORMATION ON ORGANIC REACTIONS. /N ON ORGANIC REACTIONS AND 530 JPRS-8479 P. 23
601 R. RANGANATHAN'S CLASSIFICATION SYSTEM TO THE ORGANIZATION AND RETRIEVAL OF INFORMATION. / 601 JPRS-10597 P. 21
485 OVIET UNION. ORGANIZATION OF TECHNICAL INFORMATION IN THE S 485 JPRS-6680 P. 28
480 8I8LIOGRAPHIC WORK IN THE SCIENTIFIC RESEARCH ORGANIZATION. INFORMATION AND 480 JPRS-6633 P. 7
265 N IN CONVERSION OF INTERMEDIARY LANGUAGE INTO OUTPUT LANGUAGE. WORD FORMATIO 265 JPRS-893 P. 82
533 ICAL COMPOUNDS. MACHINE INPUT AND OUTPUT OF INFORMATION ON THE STRUCTURE OF CHEM 533 JPRS-8479 P. 77
276 RINCIPLES AND OEVELOPMENT OF OEVICES FOR ORAL OUTPUT OF INFORMATION. INVESTIGATION OF THE P 276 JPRS-893 P. 97
195 SLATION).EXTRACTS FROM THE SECOND EDITION OF PANOV'S AVTOMATICHESKIY PEREVOO (AUTOMATIC TRAN 195 JPRS-487 P. 1
686 ON TRANSLATION OF TITLES OF CHEMICAL PAPERS INTO INFORMATION LANGUAGES. 686 JPRS-13173 P. 99
129 HEGEL'S THEOREM AND LINGUISTIC PARADOXES. 129 JPRS-241 P. 25
424 PRO8LEM OF TRUE POLYSEMIA AND THE CONTEXTUAL PARAMETER METHOD. THE 424 JPRS-6239 P. 10
459 E CORRELATION INTERVAL OF STOCHASTIC SIGNALS, PARTICULARLY SPEECH SIGNALS. /CTERISTICS AND TH 459 JPRS-6543 P. 7
697 WORD TREATMENT WITH HOMONYMY OF PARTS OF SPEECH IN ANALYZING ENGLISH TEXT. 697 JPRS-13173 P. 305
232 AN. PASIGRAPHY WITH THE MATHEMATICAL SIGNS OF TIROY 232 JPRS-893 P. 23
119 8LEMS OF MACHINE TRANSL/ THE ' ACTIVE ' AND ' PASSIVE ' GRAMMAR OF L. V. SHCHER8A AND THE PRO 119 JPRS-241 P. 13
783 . FORMAL ANALYSIS OF PASSIVE CONSTRUCTIONS IN THE RUSSIAN LANGUAGE 783 JPRS-13790 P. 54
800 MECHANICAL PATENT SEARCHER. 800 JPRS-15429
408 8ASIC THEORY OF PATTERN RECOGNITION (I). 408 JPRS-6135 P. 1
409 8ASIC THEORY OF PATTERN RECOGNITION (II). 409 JPRS-6135 P. 21
410 THEORY OF PATTERN RECOGNITION AND A READING MACHINE. 410 JPRS-6135 P. 49
606 ANALYSIS AND OEVELOPMENT OF A LINGUISTIC PATTERN. 606 JPRS-10721 P. 14
350 IMAGES IN SYSTEMS FOR RECOGNITION OF VISIBLE PATTERNS (CHARACTER RECOGNITION OEVICES). /IONS OF 350 JPRS-3570
371 UTER. SYNTAX PATTERNS IN ENGLISH STUDIED 8Y ELECTRONIC COMP 371 JPRS-3599 P. 50
303 ESEARCH ON MACHINE TRANSLATION IN THE CHINESE PEOPLE'S REPU8LIC. R 303 JPRS-1131
462 A FUNCTION OF THEIR DURATI/ STATISTICS OF THE PERCEPTION OF VOICELESS STOPS AND SPIRANTS AS 462 JPRS-6543 P. 36
764 EORY OF INSTRUCTION FOR ONE CLASS OF DISCRETE PERCEPTRONS. TH 764 JPRS-13725
195 THE SECOND EDITION OF PANOV'S AVTOMATICHESKIY PEREVOO (AUTOMATIC TRANSLATION).EXTRACTS FROM)95 JPRS-487 P. 1
180 H THEY SU8STITUTE. CORRELATION 8ETWEEN THIRD PERSON PERSONAL PRONOUNS AND THE NOUNS FOR WHIC 180 JPRS-241 P. 82
180 SUBSTITUTE. CORRELATION 8ETWEEN THIRD PERSON PERSONAL PRONOUNS AND THE NOUNS FOR WHICH THEY 180 JPRS-241 P. 82
357 ACTIVITIES OF SOME SOVIET MT PERSONALITIES. 357 JPRS-3597 P. 10
700 SSIAN LANGUAGE. SOME NUMERICAL OATA PERTAINING TO FORMS OF NOUNS AND VER8S OF RU 700 JPRS-13173 P. 339
278 THE FREQUENCY OF LANGUAGE SIGNS. FACTORS PERTAINING TO THE OEVELOPMENT OF A LANGUAGE AND 278 JPRS-893 P. 99
550 PHILOSOPHICAL PROBLEMS OF LANGUAGE. 550 JPRS-8938 P. 15
477 PHONATION OF THE WORO AND ITS SEMANTICS. 477 JPRS-658B P. 65
305 LOGICAL ANALYSIS OF THE PHONEME CONCEPT. 305 JPRS-1132
121 SPECTRA OF PHONEMES AND THEIR USE IN MACHINE TRANSLATION. 121 JPRS-241 P. 17
466 E OF STATISTICAL METHODS IN THE EXPERIMENTAL- PHONETIC AND PSYCHOLOGICAL STUDY OF SPEECH. /S 466 JPRS-6543 P. 67
460 E USE OF STATISTICAL METHODS TO DETERMINE THE PHONETIC MEMBERSHIP OF AN INDIVIDUAL VOWEL SOU 460 JPRS-6543 P. 21
758 ON THE ACCEPTA8ILITY OF PHONOLOGICAL MODELS. 758 JPRS-13543 P. 481
677 PROGRAM FOR THE ANALYSIS OF PHRASEOLOGICAL COMPLEXES. 677 JPRS-13134
233 S. KULAGI/ ON THE NOTION OF A ' SET OF MARKED PHRASES ' IN THE THEORETICAL SET CONCEPT OF O. 233 JPRS-893 P. 24
259 THE/ NORMALIZING THE ORDER OF PREPOSITIONAL PHRASES IN RUSSIAN SENTENCES IN CONNECTION WITH 259 JPRS-893 P. 75
746 THE SYNTACTICAL CONNECTIONS OF PREPOSITIONAL PHRASES THROUGH FORMAL ANALYSIS. /TA8LISHING 746 JPRS-13543 P. 289
179 8LISHMENT OF SYNTACTIC CUES FOR PREPOSITIONAL PHRASES. ESTA 179 JPRS-241 P. 80
532 8Y MEA/ INFORMATION PRO8LEMS IN THE FIELD OF PHYSICAL- CHEMICAL ANALYSIS AND THEIR SOLUTION 532 JPRS-8479 P. 69
243 D. THE PLACE OF INFORMATION-CARRYING ELEMENTS IN A WOR 243 JPRS-893 P. 36
490 NO THE USE IN LINGUISTICS OF METHODS OEV/ THE PLACE OF LINGUISTICS IN THE SCIENTIFIC SYSTEM A 490 JPRS-6732 P. 1
364 LEMS OF APPLIED LINGUISTICS IN THE SEVEN-YEAR PLAN FOR OEVELOPMENT OF THE NATIONAL ECONOMY OF 364 JPRS-3599 P. 1
648 THE ISOLATION OF STEPS IN THE PLAN OF AN ALGORITHM. 648 JPRS-11844 P. 1
377 EXT FEW YEARS. THE LONG-TERM PLAN OF SOVIET LINGUISTIC RESEARCH OURING THE N 377 JPRS-3629 P. 1
247 EACHING MACHINE TRA/ MACHINE LANGUAGE AND THE PLANE OF CONTENT (ON WAYS OF CREATING A SELF-T 247 JPRS-893 P. 44
354 JANUARY 1959 PLENUM OF THE COMMITTEE ON APPLIED LINGUISTICS. 354 JPRS-3597 P. 3
299 HE OETERMINATION OF INVARIANT SIGNS OF STOP (PLOSIVE) SOUNDS IN CLIPPED SPEECH SIGNALS. T 299 JPRS-1029
128 LINGUISTIC PRO8LEMS CONNECTED WITH POETRY TRANSLATION. 128 JPRS-241 P. 24
757 THE LINGUISTIC PRO8LEMS OF TRANSLATION OF POETRY. 757 JPRS-13543 P. 448
653 COMPUTING AND LOGICAL MACHINE WITH A FLOATING POINT. /YSTEM OF INSTRUCTIONS FOR A THREE- ADDRESS 653 JPRS-11985
560 LATION AND AUTOMATIC DOCUMENTATION. COMMON POINTS BETWEEN THE PRO8LEMS OF AUTOMATIC TRANS 560 JPRS-8938 P. 46
382 CY8ERNETIC ' POLYGLOTS '. 382 JPRS-3731 P. 1

287 S IN COMPILING A GERMAN-RUSSIAN DICTIONARY OF POLYSEMANTIC WORDS FOR MACHINE TRANSLATION. /LE 287 JPRS-925 P. 72
151 LES IN COMPILING A GERMAN-RUSSIAN GLOSSARY OF POLYSEMANTS FOR MACHINE TRANSLATION. PRINCIP 151 JPRS-241 P. 50
424 THE PROBLEM OF TRUE POLYSEMIA AND THE CONTEXTUAL PARAMETER METHOD. 424 JPRS-6239 P. 10
475 THE PROBLEM OF HOMONYMY AND POLYSEMY. 475 JPRS-6588 P. 38
501 GIYA (SEMASIOLOGY). SOME THEORETICAL POSITIONS OF V. A. ZVEGINTSEV'S BOOK SEMASIOLO 501 JPRS-6938 P. 11
601 CLASSIFICATION SYSTEM TO THE ORGANIZAT/ SOME POSSIBILITIES OF APPLYING S. R. RANGANATHAN'S 601 JPRS-10597 P. 21
273 RCH. THE POSSIBILITIES OF AUTOMATION IN LINGUISTIC RESEA 273 JPRS-893 P. 91
630 GIC/ BASIC TRENDS IN MODERN DOCUMENTATION AND POSSIBILITIES OF CONSTRUCTING MATHEMATICAL LO 630 JPRS-11483 P. 17
182 EXPERIMENTS WITH MACHINE TRANSLATION, THE POSSIBILITIES OF MACHINE TRANSLATION. 182 JPRS-319 P. 1
244 STRUCTURE. GENERALIZATION AND POSTULATION OF CONSTRUCTS IN STUDYING LANGUAGE 244 JPRS-893 P. 37
663 HE UNIVERSALITY OF A CALCULATING MACHINE WITH POTENTIALLY INFINITE EXTERNAL MEMORY. T 663 JPRS-12050
459 VAL OF STOCHASTIC SIGNALS, PARTICULARLY/ THE POWER CHARACTERISTICS AND THE CORRELATION INTER 459 JPRS-6543 P. 7
272 GUAGES (WITH LIMITS IMPOSED ON THE COMBINING POWER OF THE ELEMENTS). /L AND INFORMATION LAN 272 JPRS-893 P. 91
683 TIONS BETWEEN LANGUAGE SYSTEMS AND ITS MODERN PRACTICAL APPLICATION. /CS AS A THEORY OF RELA 683 JPRS-13173 P. 1
556 PRACTICAL EXERCISES IN DIAGRAM CONSTRUCTION. 556 JPRS-893B P. 37
553 PRACTICAL EXERCISES IN LINGUISTICS. 553 JPRS-893B P. 27
548 PRACTICAL WORKS IN STATISTICAL LINGUISTICS. 548 JPRS-893B P. 10
226 PRAGUE TYPOLOGY AND LANGUAGE MODELS. 226 JPRS-893 P. 8
646 SOME CONSTRUCTS IN THE LOGIC OF SINGLE-VALUED PREDICATES. 646 JPRS-11779
368 ANGUAGE. PROCESSING PREFIXES IN MACHINE ANALYSIS OF THE GEORGIAN L 368 JPRS-3599 P. 33
698 SYNTACTIC ANALYSIS OF PREPOSITIONAL GROUPS IN ENGLISH LANGUAGE. 698 JPRS-13173 P. 314
689 . ESTABLISHING A SYNTACTIC RELATIONSHIP OF PREPOSITIONAL GROUPS IN THE RUSSIAN LANGUAGE 689 JPRS-13173 P. 155
259 ONNECTION WITH THE/ NORMALIZING THE ORDER OF PREPOSITIONAL PHRASES IN RUSSIAN SENTENCES IN C 259 JPRS-893 P. 75
746 N ESTABLISHING THE SYNTACTICAL CONNECTIONS OF PREPOSITIONAL PHRASES THROUGH FORMAL ANALYSI 746 JPRS-13543 P. 289
179 ESTABLISHMENT OF SYNTACTIC CUES FOR PREPOSITIONAL PHRASES. 179 JPRS-241 P. 80
518 SESSION ON PRESENT PROBLEMS OF LEXICOLOGY AND SEMASIOLOGY. 518 JPRS-8132 P. 9
544 PRESENTATION OF THE LECTURES. 544 JPRS-893B P. 2
633 FOR CONVERTING THE NAME OF A COMPLEX COMPOUND PRESENTED IN RATIONAL NOMENCLATURE, INTO A L 633 JPRS-11483 P. 126
640 TOMATON BY AN EVENT ON AN ELECTRONIC COMPUTER PRESENTED TO IT. THE SYNTHESIS OF AN ABSTRACT AU 640 JPRS-11699
327 OEVICES. PRINCIPLE OF CONSTRUCTION OF ELECTRIC READING 327 JPRS-2150 P. 171
276 OUTPUT OF INFORMATION. INVESTIGATION OF THE PRINCIPLES AND DEVELOPMENT OF DEVICES FOR ORAL 276 JPRS-893 P. 97
393 CLASSIFICATION PRINCIPLES FOR SIMPLE SENTENCES IN VIETNAMESE. 393 JPRS-3796 P. 1
287 NARY OF POLYSEMANTIC WORDS FOR MACHINE TRANS/ PRINCIPLES IN COMPILING A GERMAN-RUSSIAN DICTIO 287 JPRS-925 P. 72
151 RY OF POLYSEMANTS FOR MACHINE TRANSLATION. PRINCIPLES IN COMPILING A GERMAN-RUSSIAN GLOSSA 151 JPRS-241 P. 50
138 TRANSLATION. SOME GENERAL PRINCIPLES IN COMPILING GLOSSARIES FOR MACHINE 138 JPRS-241 P. 36
289 INTO RUSSIAN. SOME PRINCIPLES IN MACHINE TRANSLATION FROM JAPANESE 289 JPRS-925 P. 93
146 ING DEVICES. PRINCIPLES IN THE CONSTRUCTION OF ELECTRIC READ 146 JPRS-241 P. 45
252 RY. DESIGN PRINCIPLES OF AN INTERMEDIARY LANGUAGE DICTIONA 252 JPRS-893 P. 66
225 HE RELATIONS BETWEEN LANGUAGE SYSTEMS AND THE PRINCIPLES OF COMPARATIVE HISTORICAL LINGUISTICS 225 JPRS-893 P. 3
249 RMEDIARY LANGUAGE FOR MACHINE TRANSLATION AND PRINCIPLES OF ITS CONSTRUCTION. INTE 249 JPRS-893 P. 52
183 ESE LANGUAGE. THE GENERAL PRINCIPLES OF MACHINE TRANSLATION FROM THE CHIN 183 JPRS-319 P. 10
750 RTAR LANGUAGE. THE PRINCIPLES OF SYNTACTICAL ANALYSIS OF THE TA 750 JPRS-13543 P. 355
294 IONARY FOR MACHINE TRANSLATION. THE PRINCIPLES UNDERLYING THE CONSTRUCTION OF A DICT 294 JPRS-992 P. 1
275 ALIZED ELECTRONIC COMPUTERS FOR MACHINE TRAN/ PRINCIPLES UNDERLYING THE CONSTRUCTION OF SPECI 275 JPRS-893 P. 96
171 A DEVICE FOR THE READING OF ORDINARY PRINTED MATERIAL BY THE BLIND. 171 JPRS-241 P. 72
809 NEW ELECTRONIC EQUIPMENT FOR THE PRINTING INDUSTRY. 809 JPRS-16292
126 ATIONSHIP. THE THEORY OF PROBABILITY AND DETERMINATION OF LINGUISTIC REL 126 JPRS-241 P. 22
465 PROBABILITY DETERMINATION OF LINGUISTIC TIME. 465 JPRS-6543 P. 57
332 ON THE INTRODUCTION OF PROBABILITY INTO LINGUISTICS. 332 JPRS-3300 P. 1
234 PROBABILITY MODEL OF A SENTENCE. 234 JPRS-893 P. 25
235 TOWARD A PROBABILITY MODEL OF A SENTENCE. 235 JPRS-893 P. 27
770 SOME SPECIFICATIONS OF THE ZIPF PROBABILITY MODEL. 770 JPRS-13761 P. 65
439 ON LINGUISTIC PROBABILITY. 439 JPRS-6445 P. 7
464 LINGUISTIC PROBABILITY. 464 JPRS-6543 P. 54
144 NO MACHINE TRANSLATION (A FORMULATION OF THE PROBLEM). ANCIENT TEXTS A 144 JPRS-241 P. 44
509 NTERMEDIATE LANGUAGE. THE PROBLEM CONCERNING THE ' GRAMMATICAL ' IN AN I 509 JPRS-8026 P. 15
610 EDIATE LANGUAGE. PROBLEM CONCERNING THE STRUCTURE OF AN INTERM 610 JPRS-10777 P. 11
214 THE PROBLEM OF AN INFORMATION MACHINE. 214 JPRS-662 P. 7
107 MACHINE TRANSLATION AND THE PROBLEM OF AN INTERMEDIARY LANGUAGE. 107 JPRS-68 P. 58
271 OLUTIONS. THE PROBLEM OF AUTOMATIC ABSTRACTING AND POSSIBLE S 271 JPRS-893 P. 90
716 TION OF A TABLE OF RUSSIAN GRAPHEMES (ON THE PROBLEM OF BUILDING A READING DEVICE). CLASSIFICA 716 JPRS-13256
446 OF MULTIPLE-STEM VERBS IN CONNECTION WITH THE PROBLEM OF COMPILING A STEM DICTIONARY FOR MACH 446 JPRS-6494 P. 1
309 AN INFORMATION MACHINE. THE PROBLEM OF CONSTRUCTING A MACHINE LANGUAGE FOR 309 JPRS-1145 P. 1
108 MATION MACHINES. CONFERENCE ON THE PROBLEM OF DEVELOPMENT AND CONSTRUCTION OF INFOR 108 JPRS-68 P. 68
747 (-E) WITH AN ADJECTIVA/ AN APPROACH TO THE PROBLEM OF DISTINGUISHING FORMS ENDING IN -O 747 JPRS-13543 P. 301
450 THE PROBLEM OF GOVERNMENT IN THE RUSSIAN LANGUAGE. 450 JPRS-6505 P. 4
261 ENCE STRUCTURE IN CONVERSION INTO AN INT/ THE PROBLEM OF GRAMMATICAL ANALYSIS OF ENGLISH SENT 261 JPRS-893 P. 76
475 THE PROBLEM OF HOMONYMY AND POLYSEMY. 475 JPRS-6588 P. 38
528 E. THE PROBLEM OF SEARCHING CHEMICAL ABSTRACTS BY TITL 528 JPRS-8479 P. 1
710 OKEN INFORMATION. THE PROBLEM OF SELF-TEACHING MACHINES FOR PROCESSING SP 710 JPRS-13198
529 COMPOUND INDEXES FOR CHEMICAL ABSTRACT/ THE PROBLEM OF THE AUTOMATIC COMPILATION OF ORGANIC 529 JPRS-8479 P. 9
424 ARAMETER METHOD. THE PROBLEM OF TRUE POLYSEMIA AND THE CONTEXTUAL P 424 JPRS-6239 P. 10
418 F LINGUISTICS '. CONCERNING THE PROBLEMATIC REPORT ON ' THEORETICAL PROBLEMS O 418 JPRS-6236 P. 29
139 L LINGUISTICS IN ANCIE/ SOME ANALOGIES TO THE PROBLEMS AND METHODS OF CONTEMPORARY THEORETICA 139 JPRS-241 P. 37
522 A STRUCTURAL DIAGRAM FOR SOLVING PROBLEMS CONCERNING ONE CLASS OF INFORMATION. 522 JPRS-8372 P. 1
128 LINGUISTIC PROBLEMS CONNECTED WITH POETRY TRANSLATION. 128 JPRS-241 P. 24
173 SENTENCES AND CLAUSES WITH SIMILAR MEM/ SOME PROBLEMS CONNECTED WITH THE ANALYSIS OF COMPLEX 173 JPRS-241 P. 75
142 ITH ALTERNATING STEMS IN CONSTRUCTING A/ SOME PROBLEMS CONNECTED WITH THE HANDLING OF VERBS W 142 JPRS-241 P. 42
292 BASIC PROBLEMS IN APPLIED LINGUISTICS. 292 JPRS-991 P. 18
542 SOME PROBLEMS IN CODING THE VOWEL SOUNDS OF SPEECH. 542 JPRS-8929 P. 6
366 TEXT). SOME PROCEDURAL PROBLEMS IN COMPILING FREQUENCY DICTIONARY AND 366 JPRS-3599 P. 16
636 GEOMETRY. PROBLEMS IN CREATING A MACHINE LANGUAGE FOR 636 JPRS-11483 P. 154
209 TRANSLATION FROM ENGLISH INTO RUSSIAN. PROBLEMS IN DISTINGUISHING HOMONYMS IN MACHINE 209 JPRS-646 P. 19
161 NTO RUSSIAN. SOME PROBLEMS IN MACHINE TRANSLATION FROM JAPANESE I 161 JPRS-241 P. 63
105 CERTAIN LINGUISTIC PROBLEMS IN MACHINE TRANSLATION. 105 JPRS-68 P. 36
111 SOME GENERAL PROBLEMS IN MACHINE TRANSLATION. 111 JPRS-241 P. 1
274 SOME DECODING PROBLEMS IN MACHINE TRANSLATION. 274 JPRS-893 P. 96
283 SOME GENERAL PROBLEMS IN MACHINE TRANSLATION. 283 JPRS-925 P. 1
223 ITH MACHINE TRANSLATION. SOME PROBLEMS IN MATHEMATICAL LINGUISTICS CONNECTED W 223 JPRS-893 P. 1
559 N. SOME PROBLEMS IN PROCESSING NONNUMERICAL INFORMATIO 559 JPRS-8938 P. 45

570 PROBLEMS IN THE CLASSIFICATION OF RUSSIAN HOMONYMS. 570 JPRS-8994
321 IAN ALGORITHM OF RUSSIAN TRANSLATION. CERTAIN PROBLEMS IN THE CONSTRUCTION OF A BURMESE-RUSS 321 JPRS-2150 P. 91
315 FOR AN INFORMATION MACHINE. LINGUISTICS PROBLEMS IN THE CREATION OF A MACHINE LANGUAGE 315 JPRS-2150 P. 6
760 PROBLEMS IN THE DESIGN OF A SCANNING DEVICE. 760 JPRS-13543 P. 514
532 ALYSIS AND THEIR SOLUTION BY MEA/ INFORMATION PROBLEMS IN THE FIELD OF PHYSICAL- CHEMICAL AN 532 JPRS-8479 P. 69
467 EXICAL GROUPS. SOME PROBLEMS IN THE STATISTICAL INVESTIGATION OF L 467 JPRS-6543 P. 77
359 SOME PROBLEMS IN THE THEORY OF CODING. 359 JPRS-3598 P. 1
631 AGE FOR ORGANIC CHEMISTRY. PROBLEMS INVOLVED IN CREATING A MACHINE LANGU 631 JPRS-11483 P. 42
635 AN INFORMATION MACHINE. PROBLEMS INVOLVED IN USING SEMANTIC BONDS IN 635 JPRS'11483 P. 150
364 AR PLAN FOR DEVELOPMENT OF THE NATIONAL ECON/ PROBLEMS OF APPLIED LINGUISTICS IN THE SEVEN-YE 364 JPRS-3599 P. 1
560 C DOCUMENTATION. COMMON POINTS BETWEEN THE PROBLEMS OF AUTOMATIC TRANSLATION AND AUTOMATI 560 JPRS-8938 P. 46
267 MACHINE SEARCH FOR INFOR/ CONCERNING CERTAIN PROBLEMS OF CHEMICAL LINGUISTICS CONNECTED WITH 267 JPRS-893 P. 84
629 INFORMATION MACHINE. LOGICAL-MATHEMATICAL PROBLEMS OF CREATING A MACHINE LANGUAGE FOR AN 629 JPRS-11483 P. 2
453 LINGUISTIC PROBLEMS OF CYBERNETICS AND STRUCTURAL LINGUISTICS. 453 JPRS-6506
525 AN APPROACH TO THE PROBLEMS OF DOCUMENTATION. 525 JPRS-8372 P. 16
473 HE CASE SYSTEM OF THE RUSSIAN NOUN. I CERTAIN PROBLEMS OF HOMONYMY IN MACHINE TRANSLATION). 473 JPRS-6588 P. 1
550 PHILOSOPHICAL PROBLEMS OF LANGUAGE. 550 JPRS-8938 P. 15
518 SESSION ON PRESENT PROBLEMS OF LEXICOLOGY AND SEMASIOLOGY. 518 JPRS-8132 P. 9
417 KS ON THE ' INTRODUCTION ' I TO ' THEORETICAL PROBLEMS OF LINGUISTICS '). REMAR 417 JPRS-6236 P. 12
418 RNING THE PROBLEMATIC REPORT ON ' THEORETICAL PROBLEMS OF LINGUISTICS '. CONCE 418 JPRS-6236 P. 29
416 THEORETICAL PROBLEMS OF LINGUISTICS. 416 JPRS-6236 P. 1
679 SOME PROBLEMS OF MACHINE TRANSLATION ABROAD. 679 JPRS-13135
344 PROBLEMS OF MACHINE TRANSLATION IN MOSCOW. 344 JPRS-3502 P. 16
720 SOME PROBLEMS OF MACHINE TRANSLATION IN THE USSR. 720 JPRS-13439
342 PROBLEMS OF MACHINE TRANSLATION. 342 JPRS-3502 P. 1
102 FUNDAMENTAL PROBLEMS OF MACHINE TRANSLATION. 102 JPRS-68 P. 1
119 ' PASSIVE ' GRAMMAR OF L. V. SHCHERBA AND THE PROBLEMS OF MACHINE TRANSLATION. /ACTIVE ' AND 119 JPRS-241 P. 13
345 S. NEW PROBLEMS OF MATHEMATICAL METHODS IN LINGUISTIC 345 JPRS-3502 P. 23
355 OF PSYCHOLOGISTS. SECTION ON ALLIED PROBLEMS OF PSYCHOLOGY AND LINGUISTICS, SOCIETY 355 JPRS-3597 P. 8
440 SYMPOSIUM ON PROBLEMS OF SPEECH DISCRIMINATION. 440 JPRS-6445 P. 15
789 URGENT PROBLEMS OF STRUCTURAL LINGUISTICS. 789 JPRS-14252
651 S. SOME PROBLEMS OF SYNTHESIS FOR AUTOMATIC DIGITAL MACHINE 651 JPRS-11911
757 THE LINGUISTIC PROBLEMS OF TRANSLATION OF POETRY. 757 JPRS-13543 P. 448
335 ANSLATION AND THEIR SOLUTIONS. PROBLEMS OF WORK-ORDER IN RUSSIAN-CHINESE MACHINE TR 335 JPRS-3356
622 ATION OF PROGRAMS FOR SOLVING COMPLEX LOGICAL PROBLEMS TO AN OPTIMAL FORM. ON THE TRANSFORM 622 JPRS-11088 P. 1
202 THE ASSOCIATION FOR MACHINE-TRANSLATION PROBLEMS. 202 JPRS'487 P. 32
366 TIONARY AND TEXT). SOME PROCEDURAL PROBLEMS IN COMPILING FREQUENCY DIC 366 JPRS-3599 P. 16
785 IMPLEMENTATION OF RECURSIVE PROCEDURES IN THE ALGOL-60 LANGUAGE. 785 JPRS-14164
541 GEORGIAN. PROCESS OF DISTRIBUTION OF LETTERS IN WORDS FOR 541 JPRS-8929 P. 5
311 TRANSLATION ALGORITHMS AND AUTOMATION OF THE PROCESS OF PROGRAMMING THEM. /R DESCRIPTION OF 311 JPRS-1145 P. 27
603 PPLICATIONS. MULTIPLICATIVE PROCESSES, STOCHASTIC DIFFERENTIAL EQUATIONS, AND A 603 JPRS-10679
530 N ON ORGANIC REACTIONS AND CERTAIN METHODS OF PROCESSING INFORMATION ON ORGANIC REACTIONS. / 530 JPRS-8479 P. 23
559 SOME PROBLEMS IN PROCESSING NONNUMERICAL INFORMATION. 559 JPRS-8938 P. 45
368 GEORGIAN LANGUAGE. PROCESSING PREFIXES IN MACHINE ANALYSIS OF THE 368 JPRS-3599 P. 33
710 THE PROBLEM OF SELF-TEACHING MACHINES FOR PROCESSING SPOKEN INFORMATION. 710 JPRS-13198
667 NT ' I FOR AUTOMATIC SYNTA/ TWO OPERATORS FOR PROCESSING WORD COMBINATIONS WITH ' STRONG GOVERNME 667 JPRS-12441
729 AUXILIARY STANDARD SUBROUTINE FOR OBSUGGING A PROGRAM I SPO-1). AN 729 JPRS-13514 P. 107
535 PROGRAMMING AND PROGRAM AUTOMATION. 535 JPRS-8591
498 ON TRANSFORMATIONS OF PROGRAM FLOW DIAGRAMS. 498 JPRS-6868
318 TRANSLATION. ROOT-SEPARATING PROGRAM FOR AN INDONESIAN ALGORITHM OF MACHINE 318 JPRS-2150 P. 61
677 S. PROGRAM FOR THE ANALYSIS OF PHRASEOLOGICAL COMPLEXE 677 JPRS-13134
578 PROGRAM OF CONFLICT. MODEL OF CONFLICT. 578 JPRS-10367 P. 13
655 ON FROM FRENCH TO RUSSIAN, DESCRIPTION OF THE PROGRAM. ON MACHINE TRANSLATI 655 JPRS-12046
733 NALYSIS OF TH/ SPECIAL FEATURES OF CODING AND PROGRAMMING AN ALGORITHM FOR MORPHOLOGICAL A 733 JPRS-13514 P. 330
535 PROGRAMMING AND PROGRAM AUTOMATION. 535 JPRS-8591
280 . AUTOMATIC PROGRAMMING AS TRANSLATION IN FORMAL LANGUAGES 280 JPRS-893 P. 101
150 SSIAN. THE PROGRAMMING OF TRANSLATION FROM ENGLISH INTO RU 150 JPRS-241 P. 50
311 N ALGORITHMS AND AUTOMATION OF THE PROCESS OF PROGRAMMING THEM. /R DESCRIPTION OF TRANSLATIO 311 JPRS-1145 P. 27
488 QUESTIONS OF AUTOMATION PROGRAMMING. 488 JPRS-6729
165 AUTOMATIZATION OF TRANSLATION PROGRAMMING. 165 JPRS-241 P. 67
644 LICATIONS OF A SCHEME OF SYMBOLISM IN MACHINE PROGRAMMING. SOME APP 644 JPRS-11701
322 USSIAN LANGUAGE IN MACHINE TRAN/ A PROJECT OF PROGRAMS FOR A MORPHOLOGICAL ANALYSIS OF THE R 322 JPRS-2150 P. 99
152 MAIN FEATURES OF THE GLOSSARY AND GRAMMATICAL PROGRAMS FOR ENGLISH-RUSSIAN MACHINE TRANSLATIO 152 JPRS-241 P. 51
622 TO AN OPTIMAL FORM. ON THE TRANSFORMATION OF PROGRAMS FOR SOLVING COMPLEX LOGICAL PROBLEMS 622 JPRS-11088 P. 1
557 AUTOMATIC ANALYSIS (PROGRAMS OF CONFLICTS). 557 JPRS-8938 P. 39
588 AIO OF AN ELECTRONIC COMPUTER. ALGORITHMS AND PROGRAMS. /ANCIENT MAYAN MANUSCRIPTS WITH THE 588 JPRS-10508 P. 6
322 IS OF THE RUSSIAN LANGUAGE IN MACHINE TRAN/ A PROJECT OF PROGRAMS FOR A MORPHOLOGICAL ANALYS 322 JPRS-2150 P. 99
690 ON ANALYSIS OF THIRD-PERSON PRONOUN. 690 JPRS-13173 P. 192
180 E. CORRELATION BETWEEN THIRD PERSON PERSONAL PRONOUNS AND THE NOUNS FOR WHICH THEY SUBSTITUT 180 JPRS-241 P. 82
175 PROPER NOUNS IN MACHINE TRANSLATION. 175 JPRS-241 P. 77
665 ESIS LOOPS AND METHODS OF/ STATIC AND IMPULSE PROPERTIES OF FERRITE CORES WITH RECTANGULAR HYSTER 665 JPRS-12133
642 GE. PROPOSED CHANGES IN THE ALGOL-60 ALGORITHMIC LANGUA 642 JPRS-11700
187 MACHINES IN CHEMISTRY I USSR). (REPORT/ THE PROSPECTS FOR THE UTILIZATION OF INFORMATION-LOGICAL 187 JPRS-331
579 NTIFIC TEXTS. PROVISIONAL INSTRUCTIONS FOR DIAGRAMMING SCIE 579 JPRS-10367 P. 38
466 CAL METHODS IN THE EXPERIMENTAL- PHONETIC AND PSYCHOLOGICAL STUDY OF SPEECH. /SE OF STATISTI 466 JPRS-6543 P. 67
355 EMS OF PSYCHOLOGY AND LINGUISTICS, SOCIETY OF PSYCHOLOGISTS. SECTION ON ALLIED PROBL 355 JPRS-3597 P. 8
355 GISTS. SECTION ON ALLIED PROBLEMS OF PSYCHOLOGY AND LINGUISTICS, SOCIETY OF PSYCHOLO 355 JPRS-3597 P. 8
380 NEW PUBLICATION ON MACHINE TRANSLATION. 380 JPRS-3629 P. 18
360 F COMMUNICATIONS. METHOD OF USING PUNCH CARD MACHINES FOR STATISTICAL ANALYSIS O 360 JPRS-3598 P. 11
712 NNUAL INDEXES TO ABSTRACT JO/ THE USE OF BULL PUNCH CARD MACHINES TO COMPILE ISSUE-BY-ISSUE AND A 712 JPRS-13253
794 ES (SURVEY). THE USE OF PUNCHED CARDS IN INDUSTRIAL AND RESEARCH LABORATORI 794 JPRS-14468
361 DEVICE FOR RECORDING IMAGES ON PUNCHED TAPE. 361 JPRS-3598 P. 23
172 OM RUSSIAN. ANALYSIS OF PUNCTUATION MARKS DURING MACHINE TRANSLATION FR 172 JPRS-241 P. 73
284 USSIAN. ANALYSIS OF PUNCTUATION MARKS IN MACHINE TRANSLATION FROM R 284 JPRS-925 P. 25
279 ELEMENTS AS THE COMPUTING DEVICE OF A GENERAL PURPOSE LOGICAL MACHINE. /EM-11 WITH MAGNETIC 279 JPRS-893 P. 101
279 AS THE COMPUTING DEVI/ THE HIGH SPEED GENERAL PURPOSE MACHINE LEM-11 WITH MAGNETIC ELEMENTS 279 JPRS-893 P. 101
591 OF GENERAL-PURPOSE COMPUTERS FOR TRANSLATION PURPOSES. EFFECTIVENESS 591 JPRS-10509
350 TEMS FOR RECOGNITION OF VISIBLE PATTERNS/ THE QUANTITY OF COORDINATE DESCRIPTIONS OF IMAGES IN SYS 350 JPRS-3570
583 .S.H. I MARC BLOCH ASSOCIATION) DURING FIRST QUARTER 1960. REPORT ON THE WORK OF G.E.O 583 JPRS-10380 P. 6
572 S.H. I MARC BLOCH ASSOCIATION) DURING SECOND QUARTER 1960. REPORT ON THE WORK OF G.E.O. 572 JPRS-10361 P. 2

479 QUASI-TOPOLOGICAL METHOO OF LETTER RECOGNITION. 479 JPRS-6633 P. 1
419 ANO OF MATHEMATICAL ANO AP/ OISCUSSION OF THE QUESTION OF STRUCTURAL METHOOS IN LINGUISTICS 419 JPRS-6236 P. 36
488 QUESTIONS OF AUTOMATION PROGRAMMING. 488 JPRS-6729
106 RANSLATION FROM ENGLISH TO RUSSIAN. CERTAIN QUESTIONS OF SYNTAX IN CONNECTION WITH MACHINE T 106 JPRS-68 P. 48
780 ECTION WITH MACHINE TRANSLATION. QUESTIONS ON MATHEMATICAL LINGUISTICS IN CONN 780 JPRS-13790 P. 12
164 AN ALGORITHM FOR TRANSLATING ENGLISH TEXTS ON RAOIO ENGINEERING INTO RUSSIAN. 164 JPRS-241 P. 67
564 ELECTRIC MOOELING--A NEW OIVISION OF RAOIOELECTRONICS. 564 JPRS-8950
649 ATION ON THE STEP LENGTH ANO THE FREQUENCY OF RANOOM SLIPS OF THE MACHINE. /TIME OF CALCUL 649 JPRS-11844 P. 15
601 GANIZAT/ SOME POSSI8ILITIES OF APPLYING S. R. RANGANATHAN'S CLASSIFICATION SYSTEM TO THE OR 601 JPRS-10597 P. 21
684 A STUOY OF RELATIONS 8ETWEEN COOES OF VARIOUS RANKS. 684 JPRS-13173 P. 36
633 G THE NAME OF A COMPLEX COMPOUNO PRESENTEO IN RATIONAL NOMENCLATURE, INTO A LINEAR FORMULA 633 JPRS-11483 P. 126
530 SYSTEMS FOR RECOROING INFORMATION ON ORGANIC REACTIONS ANO CERTAIN METHOOS OF PROCESSING IN 530 JPRS-8479 P. 23
530 METHOOS OF PROCESSING INFORMATION ON ORGANIC REACTIONS. /N ON ORGANIC REACTIONS ANO CERTAIN 530 JPRS-8479 P. 23
798 A MACHINE IS LEARNING TO REAO. 798 JPRS-14782
716 SIAN GRAPHEMES I ON THE PROBLEM OF 8UILOING A REAOING OEVICE). CLASSIFICATION OF A TA8LE OF RUS 716 JPRS-13256
146 PRINCIPLES IN THE CONSTRUCTION OF ELECTRIC REAOING OEVICES. 146 JPRS-241 P. 45
327 PRINCIPLE OF CONSTRUCTION OF ELECTRIC REAOING OEVICES. 327 JPRS-2150 P. 171
410 THEORY OF PATTERN RECOGNITION ANO A REAOING MACHINE. 410 JPRS-6135 P. 49
456 SEMINAR ON REAOING MACHINES. 456 JPRS-6507 P. 11
171 NO. A OEVICE FOR THE REAOING OF ORDINARY PRINTEO MATERIAL 8Y THE 8LI 171 JPRS-241 P. 72
330 A MACHINE THAT REAOS ALOUO. 330 JPRS-3225 P. 10
505 A MACHINE REAOS FORGOTTEN SCRIPT. 505 JPRS-6997 P. 1
272 POSEO ON/ OPTIMUM CODING OF COMPLEX ITEMS IN REAL ANO INFORMATION LANGUAGES (WITH LIMITS IM 272 JPRS-893 P. 91
659 REALIZA8LE SEQUENCES IN FINAL AUTOMATIC MACHINES. 659 JPRS-12048
727 HMS ON ELECTRONIC COMPUTERS. ON THE REALIZATION OF ALGE8RAIC-OIFFERENTIAL ALGORIT 727 JPRS-13514 P. 45
620 OF SEVERAL CLASSES. CONCERNING THE REALIZATION OF FUNCTIONS IN ALPHA8ETS 8Y ALGORITHMS 620 JPRS-10865
408 8ASIC THEORY OF PATTERN RECOGNITION I I). 408 JPRS-6135 P. 1
409 8ASIC THEORY OF PATTERN RECOGNITION I II). 409 JPRS-6135 P. 21
410 THEORY OF PATTERN RECOGNITION ANO A REAOING MACHINE. 410 JPRS-6135 P. 49
350 R RECOGNITION OF VISI8LE PATTERNS I CHARACTER RECOGNITION OEVICES). /IONS OF IMAGES IN SYSTEMS FO 350 JPRS-3570
781 SIMULTANEOUS RECOGNITION OF HUMAN SPEECH. 781 JPRS-13790 P. 24
811 STUOY OF AN ALGORITHM FOR THE RECOGNITION OF MACHINE-WRITTEN SYM8OLS. 811 JPRS-16343
802 EXPERIMENTS IN THE RECOGNITION OF SPEECH SOUNOS 8Y AUTOMATIC MACHINES. 802 JPRS-15754
350 ROINATE OESCRIPTIONS OF IMAGES IN SYSTEMS FOR RECOGNITION OF VISI8LE PATTERNS (CHARACTER RECOGNIT 350 JPRS-3570
479 QUASI-TOPOLOGICAL METHOO OF LETTER RECOGNITION. 479 JPRS-6633 P. 1
531 MPOUNOS. A SYSTEM OF RECOROING ANO SEARCHING CLASSES OF CHEMICAL CO 531 JPRS-8479 P. 55
361 OEVICE FOR RECOROING IMAGES ON PUNCHEO TAPE. 361 JPRS-3598 P. 23
530 CERTAIN METHOOS OF PROCESSING I/ SYSTEMS FOR RECOROING INFORMATION ON ORGANIC REACTIONS ANO 530 JPRS-8479 P. 23
241 SYM8OLIC RECOROING OF A MACHINE TRANSLATION ALGORITHM. 241 JPRS-893 P. 35
136 A SYSTEM OF RECOROING SPEECH FOR ORAL TRANSLATION. 136 JPRS-241 P. 34
526 STRY. ON CERTAIN SYSTEMS FOR RECOROING STRUCTURAL FORMULAS IN ORGANIC CHEMI 526 JPRS-8372 P. 36
665 AND IMPULSE PROPERTIES OF FERRITE CORES WITH RECTANGULAR HYSTERESIS LOOPS ANO METHOOS OF MEASURI 665 JPRS-12133
785 IMPLEMENTATION OF RECURSIVE PROCEOURES IN THE ALGOL-60 LANGUAGE. 785 JPRS-14164
787 IAL MACHINES. REOUCING THE NUM8ER OF STATES OF A CLASS OF SEQUENT 787 JPRS-14195
692 INFLEXION SYSTEM OF RUSSIAN NOUNS. ON REOUNOANCY OF CERTAIN CONTRAPOSITIONS IN THE 692 JPRS-13173 P. 213
573 INFORMATION-PROCESSING REQUIREMENTS FRAME OF REFERENCE FOR COLLA8ORATION WITH G.E.O.S.H. 573 JPRS-10361 P. 55
684 A STUOY OF RELATIONS 8ETWEEN CODES OF VARIOUS RANKS. 684 JPRS-13173 P. 36
683 ERN PRACTICAL APP/ LINGUISTICS AS A THEORY OF RELATIONS 8ETWEEN LANGUAGE SYSTEMS ANO ITS MOO 683 JPRS-13173 P. 1
225 IPLES OF COMPARATIVE HISTORI/ A THEORY OF THE RELATIONS 8ETWEEN LANGUAGE SYSTEMS ANO THE PRINC 225 JPRS-893 P. 3
401 SFORMATION A/ THE ESTA8LISHMENT OF OERIVATIVE RELATIONS 8ETWEEN WOROS I AN EXPERIMENT IN TRAN 401 JPRS-6094 P. 1
470 NCH NOUNS. STATISTICS ON THE RELATIONSHIP 8ETWEEN ENOING ANO GENOER OF FRE 470 JPRS-6543 P. 104
463 L METHOOS IN MOOERN LINGUISTICS. THE RELATIONSHIP 8ETWEEN STRUCTURAL ANO STATISTICA 463 JPRS-6543 P. 43
689 RUSSIAN LANGUAGE. ESTABLISHING A SYNTACTIC RELATIONSHIP OF PREPOSITIONAL GROUPS IN THE 689 JPRS-13173 P. 155
126 F PRO8A8ILITY ANO OETERMINATION OF LINGUISTIC RELATIONSHIP. THE THEORY O 126 JPRS-241 P. 22
508 USSR. SOME REMARKS ANO SUGGESTIONS RELATIVE TO WORK ON MACHINE TRANSLATION IN THE 508 JPRS-8026 P. 1
537 REPLY TO AN ENEMY. 537 JPRS-8865
303 N MACHINE TRANSLATION IN THE CHINESE PEOPLE'S REPU8LIC. RESEARCH O 303 JPRS-1131
523 ION ANO 8I8LIOGRAPHIC ANALYSIS OF INFORMATION REQUESTS IN ELECTRICAL ENGINEERING. CLASSIFICAT 523 JPRS-8372 P. 6
200 METHOO OF SELECTING THE REQUIREO WOROS FROM THE DICTIONARY. 200 JPRS-487 P. 28
702 SOME PRELIMINARY REQUIREMENTS FOR A TRANSLATING MACHINE. 702 JPRS-13194
573 TION WITH G.E.O.S.H. INFORMATION-PROCESSING REQUIREMENTS FRAME OF REFERENCE FOR COLLA8ORA 573 JPRS-10361 P. 55
221 URGENT TASKS OF SCIENTIFIC RESEARCH ANO EOUCATIONAL WORK IN THE FIELO OF LOGIC. 221 JPRS-863
377 THE LONG-TERM PLAN OF SOVIET LINGUISTIC RESEARCH OURING THE NEXT FEW YEARS. 377 JPRS-3629 P. 1
794 THE USE OF PUNCHEO CAROS IN INOUSTRIAL ANO RESEARCH LA8ORATORIES I SURVEY). 794 JPRS-14468
303 E'S REPU8LIC. RESEARCH ON MACHINE TRANSLATION IN THE CHINESE PEOPL 303 JPRS-1131
480 TION ANO 8I8LIOGRAPHIC WORK IN THE SCIENTIFIC RESEARCH ORGANIZATION. INFORMA 480 JPRS-6633 P. 7
774 MACHINE TRANSLATION 8Y THE CAM8RIOGE LANGUAGE RESEARCH UNIT, CAM8RIOGE, ENGLANO, JUNE 1959 774 JPRS-13761 P. 102
273 THE POSSIBILITIES OF AUTOMATION IN LINGUISTIC RESEARCH. 273 JPRS-893 P. 91
338 MATION WORK- AN IMPORTANT STAGE IN SCIENTIFIC RESEARCH. 8I8LIOGRAPHIC INFOR 338 JPRS-3433 P. 9
494 RUCTURAL ANO MATHEMATICAL METHOOS IN LANGUAGE RESEARCH. THE OEVELOPMENT OF ST 494 JPRS-6732 P. 42
441 RUCTURAL ANO MATHEMATICAL METHOOS OF LANGUAGE RESEARCH. ON THE OEVELOPMENT OF ST 441 JPRS-6445 P. 18
601 CLASSIFICATION SYSTEM TO THE ORGANIZATION ANO RETRIEVAL OF INFORMATION. /R. RANGANATHAN'S 601 JPRS-10597 P. 21
318 RITHM OF MACHINE TRANSLATION. ROOT-SEPARATING PROGRAM FOR AN INOONESIAN ALGO 318 JPRS-2150 P. 61
539 RANSLATION. ON ROUTINES FOR ANALYSIS OF GEORGIAN FOR MACHINE T 539 JPRS-8929 P. 1
285 ACTERISTICS OF THE OICTIONARY ANO GRAMMATICAL ROUTINES FOR MACHINE TRANSLATION FROM ENGLISH I 285 JPRS-925 P. 36
744 THE STRUCTURE OF A OICTIONARY AND RULES FOR ANALYSIS OF THE GERMAN LANGUAGE. 744 JPRS-13543 P. 246
745 ON THE CONSTRUCTION OF RULES FOR ANALYZING ENGLISH VER8S. 745 JPRS-13543 P. 267
600 EO LANGUAGE OF GEOMETRY. RULES FOR GENERATING SENTENCES IN A STANDAROIZ 600 JPRS-10597 P. 1
270 AN INFORMATION LANGUAGE FOR GEOMETRY ANO THE RULES FOR TRANSLATION FROM RUSSIAN INTO AN INFO 270 JPRS-893 P. 90
264 ARY LANGUAGE. THE STRUCTURE OF SYNTHESIZING RULES IN MACHINE TRANSLATION USING AN INTERMEOI 264 JPRS-893 P. 81
169 THE SUPERFLUOUSNESS OF RUSSIAN AOJECTIVE INFLECTION. 169 JPRS-241 P. 70
387 STATISTICS ON RUSSIAN CASES. 387 JPRS-3758 P. 31
158 SYNTHESIS OF THE RUSSIAN CLAUSE. 158 JPRS-241 P. 59
145 AN ALGORITHM FOR TRANSLATING FRENCH INTO RUSSIAN ELECTRONICALLY. 145 JPRS-241 P. 45
468 L FROM MATHEMATICS TEXTS. ON THE RUSSIAN FREQUENCY OICTIONARY, 8ASEO ON MATERIA 468 JPRS-6543 P. 86
716 ADING OEVICE). CLASSIFICATION OF A TA8LE OF RUSSIAN GRAPHEMES I ON THE PRO8LEM OF 8UILOING A RE 716 JPRS-13256
570 PRO8LEMS IN THE CLASSIFICATION OF RUSSIAN HOMONYMS. 570 JPRS-8994
270 R GEOMETRY ANO THE RULES FOR TRANSLATION FROM RUSSIAN INTO AN INFORMATION LANGUAGE AND VICE V 270 JPRS-893 P. 90
405 FIRST MT EXPERIMENT FROM RUSSIAN INTO CHINESE. 405 JPRS-6094 P. 28
685 R GEOMETRY ANO ALGORITHM FOR TRANSLATION FROM RUSSIAN INTO INFORMATION LANGUAGE. /NGUAGE FO 685 JPRS-13173 P. 52

768 L ANALYSIS (FOR MACHINE TRANSLATION FROM THE RUSSIAN LANGUAGE). /ALGORITHM FOR GRAMMATICA 768 JPRS-13761 P. 28
732 MY O/ THE MORPHOLOGICAL TYPES OF STEMS IN THE RUSSIAN LANGUAGE (FOR DISTINCTION OF HOMONY 732 JPRS-13514 P. 313
625 8ROAD. ON THE RUSSIAN LANGUAGE IN MACHINE TRANSLATION WORK OONE A 625 JPRS-11305
322 PROGRAMS FOR A MORPHOLOGICAL ANALYSIS OF THE RUSSIAN LANGUAGE IN MACHINE TRANSLATION. /T OF 322 JPRS-2150 P. 99
766 EOMETRY AND AN ALGORITHM FOR TRANSLATING FROM THE RUSSIAN LANGUAGE INTO AN INFORMATION LANGUAGE. 766 JPRS-13761 P. 1
733 N ALGORITHM FOR MORPHOLOGICAL ANALYSIS OF THE RUSSIAN LANGUAGE ON THE KIEV COMPUTER. /NG A 733 JPRS-13514 P. 330
753 R ORDERING WORDS IN A SENTENCE IN INDEPENDENT RUSSIAN LANGUAGE SYNTHESIS. AN ALGORITHM FO 753 JPRS-13543 P. 387
450 THE PROBLEM OF GOVERNMENT IN THE RUSSIAN LANGUAGE. 450 JPRS-6505 P. 4
687 SYNTAGMAS OF THE RUSSIAN LANGUAGE. 687 JPRS-13173 P. 120
783 RMAL ANALYSIS OF PASSIVE CONSTRUCTIONS IN THE RUSSIAN LANGUAGE. FO 783 JPRS-13790 P. 54
700 ATA PERTAINING TO FORMS OF NOUNS AND VERBS OF RUSSIAN LANGUAGE. SOME NUMERICAL D 700 JPRS-13173 P. 339
689 C RELATIONSHIP OF PREPOSITIONAL GROUPS IN THE RUSSIAN LANGUAGE. ESTABLISHING A SYNTACTI 689 JPRS-13173 P. 155
449 M FOR INDEPENDENT GRAMMATICAL ANALYSIS OF THE RUSSIAN LANGUAGE. CONSTRUCTION OF AN ALGORITH 449 JPRS-6505 P. 1
747 G IN -D (-E) WITH AN ADJECTIVAL STEM IN THE RUSSIAN LANGUAGE. /STINGUISHING FORMS ENDIN 747 JPRS-13543 P. 301
167 TION OF SYNTACTIC CONNECTIONS FOR FORMULAS IN RUSSIAN MATHEMATICAL TEXTS. DETERMINA 167 JPRS-241 P. 68
691 MENT OF SYNTACTIC CONNECTIONS FOR FORMULAS IN RUSSIAN MATHEMATICAL TEXTS. ESTABLISH 691 JPRS-13173 P. 203
473 MACHI/ DESCRIPTION OF THE CASE SYSTEM OF THE RUSSIAN NOUN. (CERTAIN PROBLEMS OF HOMONYMY IN 473 JPRS-6588 P. 1
231 NOTES ON THE CASE SYSTEM OF RUSSIAN NOUNS. 231 JPRS-893 P. 21
692 IN CONTRAPOSITIONS IN THE INFLEXION SYSTEM OF RUSSIAN NOUNS. ON REDUNDANCY OF CERTA 692 JPRS-13173 P. 213
310 EXPERIMENTAL TRANSLATIONS FROM FRENCH INTO RUSSIAN ON THE STRELA COMPUTER. 310 JPRS-1145 P. 18
739 RS FOR AN ALGORITHM FOR AUTOMATIC ANALYSIS OF RUSSIAN SCIENTIFIC TEXT MATTER. /ARD OPERATO 739 JPRS-13543 P. 103
193 RUSSIAN SENTENCE ANALYSIS. 193 JPRS-387
596 IDENTIFICATION OF CONFIGURATIONS IN THE RUSSIAN SENTENCE. 596 JPRS-10576 P. 30
693 ON SYNTHESIS OF A SIMPLE RUSSIAN SENTENCE. 693 JPRS-13173 P. 228
259 ALIZING THE ORDER OF PREPOSITIONAL PHRASES IN RUSSIAN SENTENCES IN CONNECTION WITH THE CONSTR 259 JPRS-893 P. 75
772 WORD ORDER IN INDEPENDENT SYNTHESIS OF RUSSIAN SENTENCES. 772 JPRS-13761 P. 84
585 TION OF A MACHINE TRANSLATION/ DESCRIPTION OF RUSSIAN SYNTAGMAS (IN CONNECTION WITH THE CONSTRUC 585 JPRS-10429
157 RUSSIAN SYNTAGMAS. 157 JPRS-241 P. 58
752 TION OF SENTENCES IN INDEPENDENT SYNTHESIS OF RUSSIAN TEXT MATTER. THE CONSTRUC 752 JPRS-13543 P. 376
731 ATION OF VERB STEMS FOR AUTOMATIC ANALYSIS OF RUSSIAN TEXT MATTER. /PROACH TO THE DETERMIN 731 JPRS-13514 P. 303
362 ICAL ANALYSIS OF THREE-LETTER COMBINATIONS IN RUSSIAN TEXT. STATIST 362 JPRS-3598 P. 31
476 TRANSLITERATION OF RUSSIAN TEXTS INTO LATIN LETTERS. 476 JPRS-6588 P. 45
132 LINGUISTIC STATISTICS FROM RUSSIAN TEXTS. 132 JPRS-241 P. 30
512 FIRST EXPERIMENT IN MACHINE TRANSLATION FROM RUSSIAN TO CHINESE. /FUL ACCOMPLISHMENT OF THE 512 JPRS-8026 P. 51
779 FOR GEOMETRY AND A TRANSLATION ALGORITHM FROM RUSSIAN TO THE INFORMATIONLANGUAGE. /LANGUAGE 779 JPRS-13790 P. 5
321 ONSTRUCTION OF A BURMESE-RUSSIAN ALGORITHM OF RUSSIAN TRANSLATION. CERTAIN PROBLEMS IN THE C 321 JPRS-2150 P. 91
156 THE SYNTHESIS OF RUSSIAN VERB FORMS IN MACHINE TRANSLATION. 156 JPRS-241 P. 58
367 TION). DETERMINING ASPECT OF THE RUSSIAN VERB FROM CONTEXT (IN MACHINE TRANSLA 367 JPRS-3599 P. 29
426 DEWEZE'S BOOK ON AUTOMATIC TREATMENT OF THE RUSSIAN VERB. 426 JPRS-6239 P. 18
461 F SEGMENTS OF THE CHARACTERISTIC UTTERANCE OF RUSSIAN VOWELS. /CS ON THE TIME DISTRIBUTION O 461 JPRS-6543 P. 31
657 AN. SYNTHESIS OF FORMS OF RUSSIAN WORDS DURING MACHINE TRANSLATION INTO RUSSI 657 JPRS-12047
694 FORM-GENERATING IN SYNTHESIS OF RUSSIAN WORDS. 694 JPRS-13173 P. 231
307 MACHINE TRANSLATION OF CHINESE INTO RUSSIAN. 307 JPRS-1133
103 MACHINE TRANSLATION FROM FRENCH TO RUSSIAN. 103 JPRS-68 P. 9
178 EXPERIMENTAL TRANSLATIONS FROM FRENCH INTO RUSSIAN. 178 JPRS-241 P. 80
210 MACHINE TRANSLATION FROM HUNGARIAN INTO RUSSIAN. 210 JPRS-646 P. 28
474 ON ' CONNECTED ' SYNTACTIC CONSTRUCTIONS IN RUSSIAN. 474 JPRS-6588 P. 14
325 MACHINE TRANSLATION FROM JAPANESE INTO RUSSIAN. 325 JPRS-2150 P. 161
150 PROGRAMMING OF TRANSLATION FROM ENGLISH INTO RUSSIAN. THE 150 JPRS-241 P. 50
286 INE TRANSLATION OF GERMAN COMPOUND NOUNS INTO RUSSIAN. MACH 286 JPRS-925 P. 64
170 ITHM OF MACHINE TRANSLATION FROM ENGLISH INTO RUSSIAN. AN ALGOR 170 JPRS-241 P. 71
174 RANSLATION OF COMPOUND NOUNS FROM GERMAN INTO RUSSIAN. MACHINE T 174 JPRS-241 P. 76
161 EMS IN MACHINE TRANSLATION FROM JAPANESE INTO RUSSIAN. SOME PROBL 161 JPRS-241 P. 63
284 PUNCTUATION MARKS IN MACHINE TRANSLATION FROM RUSSIAN. ANALYSIS OF 284 JPRS-925 P. 25
289 LES IN MACHINE TRANSLATION FROM JAPANESE INTO RUSSIAN. SOME PRINCIP 289 JPRS-925 P. 93
444 OR TRANSLATING FROM THE ENGLISH LANGUAGE INTO RUSSIAN. AN ALGORITHM F 444 JPRS-6492 P. 41
159 LYSIS FOR MACHINE TRANSLATION OF CHINESE INTO RUSSIAN. GRAMMATICAL ANA 159 JPRS-241 P. 60
617 DESCRIBING WORD COMBINATIONS OF STANDARDIZED RUSSIAN. ONE METHOD FOR 617 JPRS-10814 P. 1
172 TUATION MARKS DURING MACHINE TRANSLATION FROM RUSSIAN. ANALYSIS OF PUNC 172 JPRS-241 P. 73
288 YSIS IN MACHINE TRANSLATION FROM CHINESE INTO RUSSIAN. GRAMMATICAL ANAL 288 JPRS-925 P. 83
657 RUSSIAN WORDS DURING MACHINE TRANSLATION INTO RUSSIAN. SYNTHESIS OF FORMS OF 657 JPRS-12047
164 ATING ENGLISH TEXTS ON RADIO ENGINEERING INTO RUSSIAN. AN ALGORITHM FOR TRANSL 164 JPRS-241 P. 67
209 NYMS IN MACHINE TRANSLATION FROM ENGLISH INTO RUSSIAN. PROBLEMS IN DISTINGUISHING HOMO 209 JPRS-646 P. 19
756 IN BINARY MACHINE TRANSLATION FROM CHINESE TO RUSSIAN. AN ANALYSIS OF AUXILIARY WORDS 756 JPRS-13543 P. 436
106 TION WITH MACHINE TRANSLATION FROM ENGLISH TO RUSSIAN. CERTAIN QUESTIONS OF SYNTAX IN CONNEC 106 JPRS-68 P. 48
285 NES FOR MACHINE TRANSLATION FROM ENGLISH INTO RUSSIAN. /THE DICTIONARY AND GRAMMATICAL ROUTI 285 JPRS-925 P. 36
755 IN BINARY MACHINE TRANSLATION FROM CHINESE TO RUSSIAN.AN ANALYSIS OF CLOSED CONSTRUCTIONS 755 JPRS-13543 P. 423
335 ONS. PROBLEMS OF WORK-ORDER IN RUSSIAN-CHINESE MACHINE TRANSLATION AND THEIR SOLUTI 335 JPRS-3356
520 RUSSIAN-GEORGIAN MACHINE TRANSLATION ALGORITHM. 520 JPRS-8313
406 SSING. RUSSIAN-TO-GEORGIAN MACHINE TRANSLATION PROGRE 406 JPRS-6094 P. 29
655 ON MACHINE TRANSLATION FROM FRENCH TO RUSSIAN, DESCRIPTION OF THE PROGRAM. 655 JPRS-12046
162 WORK ON THE RUSSO-ENGLISH ALGORITHM OF MACHINE TRANSLATION. 162 JPRS-241 P. 64
155 GENDER AS A SUPERFLUOUS CATEGORY OF THE RUSSSIAN VERB. 155 JPRS-241 P. 56
514 ISTIQUE APPLIQUEE. REVIEW OF SAINT-MARIE'S BOOK DE LA NECESSITE D'UNE LINGU 514 JPRS-8026 P. 56
203 960. SOVIETS SAY MACHINE TRANSLATORS TO BE COMMON THING BY 1 203 JPRS-487 P. 33
760 PROBLEMS IN THE DESIGN OF A SCANNING DEVICE. 760 JPRS-13543 P. 514
814 CYBERNETICS IN THE SCHOOL. 814 JPRS-17184 P. 29
681 ANGUAGES AS AN ELEMENT OF A UNIVERSAL CODE OF SCIENCE. MACHINE L 681 JPRS-13172
116 THE MATHEMATICAL INSTITUTE OF THE ACADEMY OF SCIENCES USSR. MACHINE TRANSLATION STUDIES IN 116 JPRS-241 P. 8
490 IN LINGUISTICS OF METHODS DEVELOPED FOR OTHER SCIENCES. /N THE SCIENTIFIC SYSTEM AND THE USE 490 JPRS-6732 P. 1
212 CS. SCIENTIFIC AND TECHNICAL CONFERENCE ON CYBERNETI 212 JPRS-662 P. 1
337 MEDIATE TASKS. THE ALL-UNION INSTITUTE OF SCIENTIFIC AND TECHNICAL INFORMATION AND ITS IM 337 JPRS-3433 P. 1
776 . INTERVUZ SCIENTIFIC CONFERENCE ON APPLIED LINGUISTICS 776 JPRS-13761 P. 118
352 LINGUISTICS SECTION FUNCTIONS UNDER SCIENTIFIC COUNCIL ON CYBERNETICS. 352 JPRS-3597 P. 1
383 THE LOGICAL MODEL AS A MEANS OF SCIENTIFIC INVESTIGATION. 383 JPRS-3731 P. 9
221 OF LOGIC. URGENT TASKS OF SCIENTIFIC RESEARCH AND EDUCATIONAL WORK IN THE FIELD 221 JPRS-863
480 INFORMATION AND BIBLIOGRAPHIC WORK IN THE SCIENTIFIC RESEARCH ORGANIZATION. 480 JPRS-6633 P. 7
338 APHIC INFORMATION WORK- AN IMPORTANT STAGE IN SCIENTIFIC RESEARCH. BIBLIOGR 338 JPRS-3433 P. 9
490 METHODS DEV/ THE PLACE OF LINGUISTICS IN THE SCIENTIFIC SYSTEM AND THE USE IN LINGUISTICS OF 490 JPRS-6732 P. 1
739 N ALGORITHM FOR AUTOMATIC ANALYSIS OF RUSSIAN SCIENTIFIC TEXT MATTER. /ARD OPERATORS FOR A 739 JPRS-13543 P. 103

579 PROVISIONAL INSTRUCTIONS FOR DIAGRAMMING SCIENTIFIC TEXTS. 579 JPRS-10367 P. 38
505 A MACHINE READS FORGOTTEN SCRIPT. 505 JPRS-6997 P. 1
267 F CHEMICAL LINGUISTICS CONNECTED WITH MACHINE SEARCH FOR INFORMATION. /ING CERTAIN PROBLEMS O 267 JPRS-893 P. 84
269 INFORMATION- LOGICAL LANGUAGES FOR A MACHINE SEARCH OF THEOREMS AND DEDUCTION OF EFFECTS. /G 269 JPRS-893 P. 87
268 MACHINE SEARCH OF TITLES. 268 JPRS-893 P. 86
630 NG MATHEMATICAL LOGIC THEORIES OF INFORMATION SEARCH SYSTEMS. /POSSIBILITIES OF CONSTRUCTI 630 JPRS-11483 P. 17
800 MECHANICAL PATENT SEARCHER. 800 JPRS-15429
404 REVIEW OF A. KENT'S ' MACHINE LITERATURE SEARCHING AND TRANSLATION '. 404 JPRS-6094 P. 26
528 THE PROBLEM OF SEARCHING CHEMICAL ABSTRACTS BY TITLE. 528 JPRS-8479 P. 1
531 A SYSTEM OF RECORDING AND SEARCHING CLASSES OF CHEMICAL COMPOUNDS. 531 JPRS-8479 P. 55
568 URAL CHARACTERISTI/ THE ' FILTER ' SYSTEM FOR SEARCHING FOR CHEMICAL COMPOUNDS ACCORDING TO STRUCT 568 JPRS-8991
671 EXPERIMENTAL MECHANIZED SYSTEM FOR LITERATURE SEARCHING IN THE FIELD OF MECHANICS. /PLOYED IN AN 671 JPRS-13055
352 YBERNETICS. LINGUISTICS SECTION FUNCTIONS UNDER SCIENTIFIC COUNCIL ON C 352 JPRS-3597 P. 1
355 NGUISTICS, SOCIETY OF PSYCHOLOGISTS. SECTION ON ALLIED PROBLEMS OF PSYCHOLOGY AND LI 355 JPRS-3597 P. 8
461 SSIAN/ STATISTICS ON THE TIME DISTRIBUTION OF SEGMENTS OF THE CHARACTERISTIC UTTERANCE OF RU 461 JPRS-6543 P. 31
796 COMPUTERS. SELF-ORGANIZING SYSTEMS AND THE ABSTRACT THEORY OF 796 JPRS-14624
576 A SELF-PRIMING AUTOMATIC ANALYSIS UNIT. 576 JPRS-10367 P. 4
247 THE PLANE OF CONTENT (ON WAYS OF CREATING A SELF-TEACHING MACHINE TRANSLATOR). /NGUAGE AND 247 JPRS-893 P. 44
710 ATION. THE PROBLEM OF SELF-TEACHING MACHINES FOR PROCESSING SPOKEN INFORM 710 JPRS-13198
635 PROBLEMS INVOLVED IN USING SEMANTIC BONDS IN AN INFORMATION MACHINE. 635 JPRS'11483 P. 150
714 AN OUTLINE OF A SEMANTIC LANGUAGE FOR TRANSCRIPTION 714 JPRS-13254
291 ONE APPROACH TO SEMANTICS. 291 JPRS-991 P. 1
141 ONE APPROACH TO LOGICAL SEMANTICS. 141 JPRS-241 P. 40
477 PHONATION OF THE WORD AND ITS SEMANTICS. 477 JPRS-6588 P. 65
501 ORETICAL POSITIONS OF V. A. ZVEGINTSEV'S BOOK SEMASIOLOGIYA (SEMASIOLOGY). SOME THE 501 JPRS-6938 P. 11
501 NS OF V. A. ZVEGINTSEV'S BOOK SEMASIOLOGIYA (SEMASIOLOGY). SOME THEORETICAL POSITIO 501 JPRS-6938 P. 11
414 DISCUSSION OF V. A. ZVEGINTSEV'S BOOK ' SEMASIOLOGY '. 414 JPRS-6152 P. 14
518 SESSION ON PRESENT PROBLEMS OF LEXICOLOGY AND SEMASIOLOGY. 518 JPRS-8132 P. 9
312 THE LENINGRAD ALL-UNIVERSITY SEMINAR ON MACHINE TRANSLATION. 312 JPRS-1145 P. 44
456 SEMINAR ON READING MACHINES. 456 JPRS-6507 P. 11
515 E ASSOCIATION FOR MACHINE TRANSLATION AND THE SEMINAR ON SEMIOTICS AND STRUCTURAL LINGUISTIC 515 JPRS-8026 P. 57
515 ON FOR MACHINE TRANSLATION AND THE SEMINAR ON SEMIOTICS AND STRUCTURAL LINGUISTICS. /SOCIATI 515 JPRS-8026 P. 57
736 ON THE FUNDAMENTAL USE OF SENSE IN MACHINE TRANSLATION. 736 JPRS-13543 P. 19
566 ANALYSIS OF THE COMPLEX SENTENCE (GERMAN). 566 JPRS-8966
193 RUSSIAN SENTENCE ANALYSIS. 193 JPRS-387
753 THESIS. AN ALGORITHM FOR ORDERING WORDS IN A SENTENCE IN INDEPENDENT RUSSIAN LANGUAGE SYN 753 JPRS-13543 P. 387
688 PRELIMINARY ARTICULATION OF SENTENCE IN SYNTACTIC ANALYSIS. 688 JPRS-13173 P. 151
261 HE PROBLEM OF GRAMMATICAL ANALYSIS OF ENGLISH SENTENCE STRUCTURE IN CONVERSION INTO AN INTERM 261 JPRS-893 P. 76
513 REVIEW OF LAMBEK'S BOOK THE MATHEMATICS OF SENTENCE STRUCTURE. 513 JPRS-8026 P. 53
234 PROBABILITY MODEL OF A SENTENCE. 234 JPRS-893 P. 25
235 TOWARD A PROBABILITY MODEL OF A SENTENCE. 235 JPRS-893 P. 27
237 CONCERNING ONE MODEL OF A GERMAN SIMPLE SENTENCE. 237 JPRS-893 P. 28
134 A FORMAL THEORY OF THE SENTENCE. 134 JPRS-241 P. 31
771 MACHINE BREAKDOWN OF THE GEORGIAN SENTENCE. 771 JPRS-13761 P. 74
693 ON SYNTHESIS OF A SIMPLE RUSSIAN SENTENCE. 693 JPRS-13173 P. 228
596 ENTIFICATION OF CONFIGURATIONS IN THE RUSSIAN SENTENCE. ID 596 JPRS-10576 P. 30
173 OBLEMS CONNECTED WITH THE ANALYSIS OF COMPLEX SENTENCES AND CLAUSES WITH SIMILAR MEMBERS. /PR 173 JPRS-241 P. 75
236 CLASSIFICATION OF SIMPLE SENTENCES AND CODE CONSTRUCTION. 236 JPRS-893 P. 27
600 RY. RULES FOR GENERATING SENTENCES IN A STANDARDIZED LANGUAGE OF GEOMET 600 JPRS-10597 P. 1
259 THE ORDER OF PREPOSITIONAL PHRASES IN RUSSIAN SENTENCES IN CONNECTION WITH THE CONSTRUCTION O 259 JPRS-893 P. 75
752 N TEXT MATTER. THE CONSTRUCTION OF SENTENCES IN INDEPENDENT SYNTHESIS OF RUSSIA 752 JPRS-13543 P. 376
782 NALYSIS. A METHOD OF SYNTHESIZING SENTENCES IN MT ON THE BASIS OF SYNTAGMATIC A 782 JPRS-13790 P. 49
393 CLASSIFICATION PRINCIPLES FOR SIMPLE SENTENCES IN VIETNAMESE. 393 JPRS-3796 P. 1
386 ODE CONSTRUCTION AND CLASSIFICATION OF SIMPLE SENTENCES. C 386 JPRS-3758 P. 23
772 ORD ORDER IN INDEPENDENT SYNTHESIS OF RUSSIAN SENTENCES. W 772 JPRS-13761 P. 84
115 THE SEQUENCE IN BUILDING A LANGUAGE SYSTEM. 115 JPRS-241 P. 7
659 REALIZABLE SEQUENCES IN FINAL AUTOMATIC MACHINES. 659 JPRS-12048
787 REDUCING THE NUMBER OF STATES OF A CLASS OF SEQUENTIAL MACHINES. 787 JPRS-14195
518 EMASIOLOGY. SESSION ON PRESENT PROBLEMS OF LEXICOLOGY AND S 518 JPRS-8132 P. 9
546 INTRODUCTION TO THE MATHEMATICS SESSION. 546 JPRS-8938 P. 6
549 INTRODUCTION TO THE LINGUISTICS SESSION. 549 JPRS-8938 P. 11
233 ' SET OF MARKED PHRASES ' IN THE THEORETICAL SET CONCEPT OF O. S. KULAGINA. /THE NOTION OF A 233 JPRS-893 P. 24
233 CONCEPT OF O. S. KULAGI/ ON THE NOTION OF A ' SET OF MARKED PHRASES ' IN THE THEORETICAL SET 233 JPRS-893 P. 24
213 N APPLIED LINGUISTICS AND MACHINE TRANSLATION SET UP IN ARMENIA. COMMISSION O 213 JPRS-662 P. 6
500 ON SOME NOTIONS OF THE SO-CALLED SET-THEORY CONCEPTION OF LANGUAGE. 500 JPRS-6938 P. 1
208 ATICAL CONCEPTS ON THE BASIS OF THE THEORY OF SETS. ONE METHOD OF DEFINING GRAMM 208 JPRS-646 P. 1
364 ECON/ PROBLEMS OF APPLIED LINGUISTICS IN THE SEVEN-YEAR PLAN FOR DEVELOPMENT OF THE NATIONAL 364 JPRS-3599 P. 1
762 S IN TRAINING A MACHINE TO DISTINGUISH VISUAL SHAPES. EXPERIMENT 762 JPRS-13694
413 METHODOLOGICAL FOUNDATIONS OF S. K. SHAUMYAN'S CONCEPT. 413 JPRS-6152 P. 7
119 E ' ACTIVE ' AND ' PASSIVE ' GRAMMAR OF L. V. SHCHERBA AND THE PROBLEMS OF MACHINE TRANSLATIO 119 JPRS-241 P. 13
436 WHAT IS THE DIFFERENCE BETWEEN SIGN SYSTEMS. 436 JPRS-6347 P. 26
434 THE NATURE OF THE LANGUAGE SIGN. 434 JPRS-6347 P. 1
435 THE NATURE OF THE MEANING OF THE LANGUAGE SIGN. 435 JPRS-6347 P. 16
299 OF STOP (PLOSIVE) SOUNDS IN CLIPPED SPEECH SIGNALS. THE DETERMINATION OF INVARIANT SIGNS 299 JPRS-1029
459 AL OF STOCHASTIC SIGNALS, PARTICULARLY SPEECH SIGNALS. /CTERISTICS AND THE CORRELATION INTERV 459 JPRS-6543 P. 7
459 CS AND THE CORRELATION INTERVAL OF STOCHASTIC SIGNALS, PARTICULARLY SPEECH SIGNALS. /CTERISTI 459 JPRS-6543 P. 7
124 INING THE STYLISTIC FUNCTIONS OF WORDS. THE SIGNIFICANCE OF FREQUENCY AS A FACTOR IN DETERM 124 JPRS-241 P. 20
118 TICS. THE SIGNIFICANCE OF MACHINE TRANSLATION FOR LINGUIS 118 JPRS-241 P. 13
314 ICS. THE SIGNIFICANCE OF MACHINE TRANSLATION TO LINGUIST 314 JPRS-2150 P. 2
607 THE CULTURAL SIGNIFICANCE OF MACHINE TRANSLATION. 607 JPRS-10721 P. 31
458 F SPEECH. THE ENGINEERING SIGNIFICANCE OF THE STATISTICAL INVESTIGATION O 458 JPRS-6543 P. 2
299 IGNALS. THE DETERMINATION OF INVARIANT SIGNS OF STOP (PLOSIVE) SOUNDS IN CLIPPED SPEECH S 299 JPRS-1029
232 PASIGRAPHY WITH THE MATHEMATICAL SIGNS OF TIROYAN. 232 JPRS-893 P. 23
278 T OF A LANGUAGE AND THE FREQUENCY OF LANGUAGE SIGNS. FACTORS PERTAINING TO THE DEVELOPMEN 278 JPRS-893 P. 99
173 NALYSIS OF COMPLEX SENTENCES AND CLAUSES WITH SIMILAR MEMBERS. /PROBLEMS CONNECTED WITH THE A 173 JPRS-241 P. 75
699 ON ANALYSIS AND A POSSIBLE WAY OF SIMPLIFYING STRUCTURE OF A LANGUAGE TEXT. 699 JPRS-13173 P. 325
781 SIMULTANEOUS RECOGNITION OF HUMAN SPEECH. 781 JPRS-13790 P. 24
646 SOME CONSTRUCTS IN THE LOGIC OF SINGLE-VALUED PREDICATES. 646 JPRS-11779
649 N THE STEP LENGTH AND THE FREQUENCY OF RANDOM SLIPS OF THE MACHINE. /TIME OF CALCULATION O 649 JPRS-11844 P. 15
500 ON SOME NOTIONS OF THE SO-CALLED SET-THEORY CONCEPTION OF LANGUAGE. 500 JPRS-6938 P. 1

355 LLIED PROBLEMS OF PSYCHOLOGY AND LINGUISTICS, SOCIETY OF PSYCHOLOGISTS. SECTION ON A 355 JPRS-3597 P. 8
775 IN MEMORY OF I. A. SOKOLYANSKIY. 775 JPRS-13761 P. 116
532 IELD OF PHYSICAL- CHEMICAL ANALYSIS AND THEIR SOLUTION BY MEANS OF ELECTRONIC DIGITAL COMPUT 532 JPRS-8479 P. 69
271 PROBLEM OF AUTOMATIC ABSTRACTING AND POSSIBLE SOLUTIONS. THE 271 JPRS-893 P. 9D
335 RUSSIAN-CHINESE MACHINE TRANSLATION AND THEIR SOLUTIONS. PROBLEMS OF WORK-ORDER IN 335 JPRS-3356
622 FORM. ON THE TRANSFORMATION OF PROGRAMS FOR SOLVING COMPLEX LOGICAL PROBLEMS TO AN OPTIMAL 622 JPRS-11088 P. 1
742 NT ANALYSIS OF CHINESE TEXT MATTER. ON SOLVING CONVERSION HOMONYMY DURING INDEPENDE 742 JPRS-13543 P. 217
522 ATION. A STRUCTURAL DIAGRAM FOR SOLVING PROBLEMS CONCERNING ONE CLASS OF INFORM 522 JPRS-8372 P. 1
806 MECHANIZATION OF SORTING LARGE VOLUMES OF INFORMATION. 806 JPRS-15839 P. 1
460 HE PHONETIC MEMBERSHIP OF AN INDIVIDUAL VOWEL SOUND. /OF STATISTICAL METHODS TO DETERMINE T 460 JPRS-6543 P. 21
802 EXPERIMENTS IN THE RECOGNITION OF SPEECH SOUNDS BY AUTOMATIC MACHINES. 802 JPRS-15754
299 NATION OF INVARIANT SIGNS OF STOP (PLOSIVE) SOUNDS IN CLIPPED SPEECH SIGNALS. THE DETERMI 299 JPRS-1029
542 SOME PROBLEMS IN CODING THE VOWEL SOUNDS OF SPEECH. 542 JPRS-8929 P. 6
189 SOVIET DEVELOPMENT IN MACHINE TRANSLATION. 189 JPRS-335
377 YEARS. THE LONG-TERM PLAN OF SOVIET LINGUISTIC RESEARCH DURING THE NEXT FEW 377 JPRS-3629 P. 1
357 ACTIVITIES OF SOME SOVIET MT PERSONALITIES. 357 JPRS-3597 P. 10
484 TECHNICAL INFORMATION BUREAUS IN THE SOVIET UNION. 484 JPRS-668D P. 2
485 ORGANIZATION OF TECHNICAL INFORMATION IN THE SOVIET UNION. 485 JPRS-668D P. 28
203 ING BY 196D. SOVIETS SAY MACHINE TRANSLATORS TO BE COMMON TH 203 JPRS-487 P. 33
142 CTING AN ALGORITHM OF MACHINE TRANSLATION FOR SPANISH (A STATISTICAL INQUIRY). /IN CONSTRU 142 JPRS-241 P. 42
675 A METHOD OF SPECIAL ABSTRACTING. 675 JPRS-13057
733 N ALGORITHM FOR MORPHOLOGICAL ANALYSIS OF TH/ SPECIAL FEATURES OF CODING AND PROGRAMMING A 733 JPRS-13514 P. 33D
275 AN/ PRINCIPLES UNDERLYING THE CONSTRUCTION OF SPECIALIZED ELECTRONIC COMPUTERS FOR MACHINE TR 275 JPRS-893 P. 96
135 TRANSLATION SUB SPECIE STRUCTURALISMI. 135 JPRS-241 P. 33
77D SOME SPECIFICATIONS OF THE ZIPF PROBABILITY MODEL. 77D JPRS-13761 P. 65
121 ANSLATION. SPECTRA OF PHONEMES AND THEIR USE IN MACHINE TR 121 JPRS-241 P. 17
402 SYMPOSIUM ON METHOD OF SPECTRAL ANALYSIS OF SPEECH. 402 JPRS-6094 P. 13
506 NEW METHOD OF SPEECH SPECTRUM SYNTHESIS. 506 JPRS-6997 P. 6
440 SYMPOSIUM ON PROBLEMS OF SPEECH DISCRIMINATION. 440 JPRS-6445 P. 15
136 A SYSTEM OF RECORDING SPEECH FOR ORAL TRANSLATION. 136 JPRS-241 P. 34
697 WORD TREATMENT WITH HOMONYMY OF PARTS OF SPEECH IN ANALYZING ENGLISH TEXT. 697 JPRS-13173 P. 305
4D3 . I. ZHINKIN DEFENDS DOCTORAL DISSERTATION ON SPEECH MECHANISM. N 4D3 JPRS-6094 P. 20
299 T SIGNS OF STOP (PLOSIVE) SOUNDS IN CLIPPED SPEECH SIGNALS. THE DETERMINATION OF INVARIAN 299 JPRS-1029
459 INTERVAL OF STOCHASTIC SIGNALS, PARTICULARLY SPEECH SIGNALS. /CTERISTICS AND THE CORRELATION 459 JPRS-6543 P. 7
802 EXPERIMENTS IN THE RECOGNITION OF SPEECH SOUNDS BY AUTOMATIC MACHINES. 802 JPRS-15754
506 NEW METHOD OF SPEECH SPECTRUM SYNTHESIS. 506 JPRS-6997 P. 6
438 CONFERENCE ON SPEECH STATISTICS. 438 JPRS-6445 P. 1
542 SOME PROBLEMS IN CODING THE VOWEL SOUNDS OF SPEECH. 542 JPRS-8929 P. 6
402 SYMPOSIUM ON METHOD OF SPECTRAL ANALYSIS OF SPEECH. 402 JPRS-6094 P. 13
781 SIMULTANEOUS RECOGNITION OF HUMAN SPEECH. 781 JPRS-13790 P. 24
458 NIFICANCE OF THE STATISTICAL INVESTIGATION OF SPEECH. THE ENGINEERING SIG 458 JPRS-6543 P. 2
466 RIMENTAL- PHONETIC AND PSYCHOLOGICAL STUDY OF SPEECH. /SE OF STATISTICAL METHODS IN THE EXPE 466 JPRS-6543 P. 67
279 ETIC ELEMENTS AS THE COMPUTING DEVI/ THE HIGH SPEED GENERAL PURPOSE MACHINE LEM-11 WITH MAGN 279 JPRS-893 P. 101
462 TICS OF THE PERCEPTION OF VOICELESS STOPS AND SPIRANTS AS A FUNCTION OF THEIR DURATION. /TIS 462 JPRS-6543 P. 36
729 STANDARD SUBROUTINE FOR DEBUGGING A PROGRAM (SPO-1). AN AUXILIARY 729 JPRS-13514 P. 107
71D BLEM OF SELF-TEACHING MACHINES FOR PROCESSING SPOKEN INFORMATION. THE PRO 71D JPRS-13198
353 THE USSR. SPRING 1959 ACTIVITIES OF ASSOCIATION FOR MT IN 353 JPRS-3597 P. 2
491 THE TERMS ' STABILITY ' AND ' IDIOMACY '. 491 JPRS-6732 P. 11
338 BIBLIOGRAPHIC INFORMATION WORK- AN IMPORTANT STAGE IN SCIENTIFIC RESEARCH. 338 JPRS-3433 P. 9
326 TURE OF THE SIMPLE CLAUSE IN ENGLISH. FIRST STAGE OF AN INDEPENDENT ANALYSIS OF THE STRUC 326 JPRS-215D P. 166
320 F MACHINE TRANSLATION. INITIAL STAGE OF WORK ON AN ARABIC-RUSSIAN ALGORITHM O 32D JPRS-215D P. 79
63B HE TRANSLATION OF ORGANIC COMPOUND NAMES INTO STANDARD FORM AND STRUCTURAL FORMULAS INTO S 638 JPRS-11483 P. 171
259 NCES IN CONNECTION WITH THE CONSTRUCTION OF A STANDARD LANGUAGE. /AL PHRASES IN RUSSIAN SENTE 259 JPRS-893 P. 75
739 MATIC ANALYSIS OF RUSSIAN SCIENTIFIC TEXT/ ON STANDARD OPERATORS FOR AN ALGORITHM FOR AUTO 739 JPRS-13543 P. 103
729 (SPO-1). AN AUXILIARY STANDARD SUBROUTINE FOR DEBUGGING A PROGRAM 729 JPRS-13514 P. 107
6DD RULES FOR GENERATING SENTENCES IN A STANDARDIZED LANGUAGE OF GEOMETRY. 6DD JPRS-10597 P. 1
617 NE METHOD FOR DESCRIBING WORD COMBINATIONS OF STANDARDIZED RUSSIAN. O 617 JPRS-10814 P. 1
787 REDUCING THE NUMBER OF STATES OF A CLASS OF SEQUENTIAL MACHINES. 787 JPRS-14195
665 RECTANGULAR HYSTERESIS LOOPS AND METHODS OF/ STATIC AND IMPULSE PROPERTIES OF FERRITE CORES WITH 665 JPRS-12133
36D METHOD OF USING PUNCH CARD MACHINES FOR STATISTICAL ANALYSIS OF COMMUNICATIONS. 36D JPRS-359B P. 11
8D7 DETERMINING LETTER COMBINATIONS THROUGH STATISTICAL ANALYSIS OF TEXT MATTER. 8D7 JPRS-15839 P. 2D
7D6 AUTOMATIC ABSTRACTING BASED ON A STATISTICAL ANALYSIS OF THE TEXT. 7D6 JPRS-13196
362 ONS IN RUSSIAN TEXT. STATISTICAL ANALYSIS OF THREE-LETTER COMBINATI 362 JPRS-3598 P. 31
22B MODELING A LANGUAGE ON THE BASIS OF ITS STATISTICAL AND THEORETICAL-SET STRUCTURE. 228 JPRS-893 P. 12
229 METHODS OF COMPARING STATISTICAL DICTIONARIES. 229 JPRS-893 P. 2D
142 ORITHM OF MACHINE TRANSLATION FOR SPANISH (A STATISTICAL INQUIRY). /IN CONSTRUCTING AN ALG 142 JPRS-241 P. 42
511 GURATION IN ENGLISH MATHEMATICAL TEXT. STATISTICAL INVESTIGATION OF GRAMMATICAL CONFI 511 JPRS-8026 P. 4D
467 SOME PROBLEMS IN THE STATISTICAL INVESTIGATION OF LEXICAL GROUPS. 467 JPRS-6543 P. 77
458 THE ENGINEERING SIGNIFICANCE OF THE STATISTICAL INVESTIGATION OF SPEECH. 45B JPRS-6543 P. 2
469 E. THE STATISTICAL INVESTIGATION OF SYLLABLE STRUCTUR 469 JPRS-6543 P. 92
552 ON THE STATISTICAL LAWS OF LINGUISTIC DISTRIBUTIONS. 552 JPRS-B938 P. 23
548 PRACTICAL WORKS IN STATISTICAL LINGUISTICS. 54B JPRS-8938 P. 10
493 THE APPLICATION OF STATISTICAL METHODS IN LINGUISTICS. 493 JPRS-6732 P. 32
463 THE RELATIONSHIP BETWEEN STRUCTURAL AND STATISTICAL METHODS IN MODERN LINGUISTICS. 463 JPRS-6543 P. 43
466 TIC AND PSYCHOLOGICAL STUDY OF SP/ THE USE OF STATISTICAL METHODS IN THE EXPERIMENTAL- PHONE 466 JPRS-6543 P. 67
46D MEMBERSHIP OF AN INDIVIDUAL VOWEL/ THE USE OF STATISTICAL METHODS TO DETERMINE THE PHONETIC 46D JPRS-6543 P. 21
132 LINGUISTIC STATISTICS FROM RUSSIAN TEXTS. 132 JPRS-241 P. 30
462 S AND SPIRANTS AS A FUNCTION OF THEIR DURATI/ STATISTICS OF THE PERCEPTION OF VOICELESS STOP 462 JPRS-6543 P. 36
540 RY GEORGIAN. STATISTICS OF TWO-LETTER COMBINATIONS IN LITERA 54D JPRS-8929 P. 4
387 STATISTICS ON RUSSIAN CASES. 387 JPRS-375B P. 31
47D AND GENDER OF FRENCH NOUNS. STATISTICS ON THE RELATIONSHIP BETWEEN ENDING 47D JPRS-6543 P. 1D4
461 S OF THE CHARACTERISTIC UTTERANCE OF RUSSIAN/ STATISTICS ON THE TIME DISTRIBUTION OF SEGMENT 461 JPRS-6543 P. 31
43B CONFERENCE ON SPEECH STATISTICS. 438 JPRS-6445 P. 1
495 L DEVOTED TO MACHINE TRANSLATION AND LANGUAGE STATISTICS. ENTIRE ISSUE OF YUGOSLAV JOURNA 495 JPRS-6732 P. 46
446 IN CONNECTION WITH THE PROBLEM OF COMPILING A STEM DICTIONARY FOR MACHINE TRANSLATION. /ERBS 446 JPRS-6494 P. 1
747 FORMS ENDING IN -O (-E) WITH AN ADJECTIVAL STEM IN THE RUSSIAN LANGUAGE. /ISTINGUISHING 747 JPRS-13543 P. 3D1
731 MA/ AN APPROACH TO THE DETERMINATION OF VERB STEMS FOR AUTOMATIC ANALYSIS OF RUSSIAN TEXT 731 JPRS-13514 P. 303
142 D WITH THE HANDLING OF VERBS WITH ALTERNATING STEMS IN CONSTRUCTING AN ALGORITHM OF MACHINE T 142 JPRS-241 P. 42
732 ION OF HOMONYMY O/ THE MORPHOLOGICAL TYPES OF STEMS IN THE RUSSIAN LANGUAGE (FOR DISTINCT 732 JPRS-13514 P. 313
649 DEPENDENCE OF THE TIME OF CALCULATION ON THE STEP LENGTH AND THE FREQUENCY OF RANDOM SLIPS 649 JPRS-11844 P. 15

673 OCABULARY OF AN INFORMATION LANGUAGE 8ASED ON STEP-8Y-STEP CODING OF THE MEANINGS OF TERMS. /A V 673 JPRS-13056
648 THE ISOLATION OF STEPS IN THE PLAN OF AN ALGORITHM. 648 JPRS-11844 P. 1
603 MULTIPLICATIVE PROCESSES, STOCHASTIC DIFFERENTIAL EQUATIONS, AND APPLICATIONS 603 JPRS-10679
459 ARACTERISTICS AND THE CORRELATION INTERVAL OF STOCHASTIC SIGNALS, PARTICULARLY SPEECH SIGNALS 459 JPRS-6543 P. 7
299 THE DETERMINATION OF INVARIANT SIGNS OF STOP (PLOSIVE) SOUNDS IN CLIPPED SPEECH SIGNALS. 299 JPRS-1029
462 TI/ STATISTICS OF THE PERCEPTION OF VOICELESS STOPS AND SPIRANTS AS A FUNCTION OF THEIR DURA 462 JPRS-6543 P. 36
704 NTAL ENGLISH-TO-RUSSIAN TRANSLATIONS ON THE ' STRELA ' MACHINE. EXPERIME 704 JPRS-13195
310 TRANSLATIONS FROM FRENCH INTO RUSSIAN ON THE STRELA COMPUTER. EXPERIMENTAL 310 JPRS-1145 P. 18
420 CONCERNING WORK ON THE STRUCTURAL ANALYSIS OF LANGUAGE. 420 JPRS-6236 P. 41
517 CONFERENCE ON STRUCTURAL AND MATHEMATICAL LINGUISTICS. 517 JPRS-8132 P. 1
494 E RESEARCH. THE DEVELOPMENT OF STRUCTURAL AND MATHEMATICAL METHODS IN LANGUAG 494 JPRS-6732 P. 42
441 E RESEARCH. ON THE DEVELOPMENT OF STRUCTURAL AND MATHEMATICAL METHODS OF LANGUAG 441 JPRS-6445 P. 18
463 INGUISTICS. THE RELATIONSHIP BETWEEN STRUCTURAL AND STATISTICAL METHODS IN MODERN L 463 JPRS-6543 P. 43
568 SEARCHING FOR CHEMICAL COMPOUNDS ACCORDING TO STRUCTURAL CHARACTERISTICS. /' FILTER ' SYSTEM FOR 568 JPRS-8991
522 ING ONE CLASS OF INFORMATION. A STRUCTURAL DIAGRAM FOR SOLVING PROBLEMS CONCERN 522 JPRS-8372 P. 1
632 CANONICAL NOTA/ AN ALGORITHM FOR TRANSLATING STRUCTURAL FORMULAS IN ORGANIC CHEMISTRY INTO 632 JPRS-11483 P. 63
526 ON CERTAIN SYSTEMS FOR RECORDING STRUCTURAL FORMULAS IN ORGANIC CHEMISTRY. 526 JPRS-8372 P. 36
638 ORGANIC COMPOUND NAMES INTO STANDARD FORM AND STRUCTURAL FORMULAS INTO SYSTEMATIC NAMES. / 638 JPRS-11483 P. 171
453 LINGUISTIC PROBLEMS OF CYBERNETICS AND STRUCTURAL LINGUISTICS. 453 JPRS-6506
295 A SURVEY OF STRUCTURAL LINGUISTICS. 295 JPRS-992 P. 10
789 URGENT PROBLEMS OF STRUCTURAL LINGUISTICS. 789 JPRS-14252
515 TRANSLATION AND THE SEMINAR ON SEMIOTICS AND STRUCTURAL LINGUISTICS. /SOCIATION FOR MACHINE 515 JPRS-8026 P. 57
419 MATICAL AND AP/ DISCUSSION OF THE QUESTION OF STRUCTURAL METHODS IN LINGUISTICS AND OF MATHE 419 JPRS-6236 P. 36
123 THE TREATMENT OF CERTAIN CONCEPTS IN STRUCTURALISM. 123 JPRS-241 P. 19
135 TRANSLATION SUB SPECIE STRUCTURALISMI. 135 JPRS-241 P. 33
429 GRAMMATICAL STRUCTURE AND AUTOMATIC TRANSLATION. 429 JPRS-6240 P. 1
154 ANSLATION. GLOSSARY STRUCTURE AND INFORMATION CODING FOR MACHINE TR 154 JPRS-241 P. 56
741 ENDENT ANALYSIS OF CHINESE TEXT MATTER. THE STRUCTURE AND NATURE OF A GLOSSARY FOR INDEP 741 JPRS-13543 P. 209
261 M OF GRAMMATICAL ANALYSIS OF ENGLISH SENTENCE STRUCTURE IN CONVERSION INTO AN INTERMEDIARY LA 261 JPRS-893 P. 76
744 YSIS OF THE GERMAN LANGUAGE. THE STRUCTURE OF A DICTIONARY AND RULES FOR ANAL 744 JPRS-13543 P. 246
317 FORMATION FOR MACHINE TRANSLATION. ON THE STRUCTURE OF A DICTIONARY AND THE CODING OF IN 317 JPRS-2150 P. 41
699 ON ANALYSIS AND A POSSIBLE WAY OF SIMPLIFYING STRUCTURE OF A LANGUAGE TEXT. 699 JPRS-13173 P. 325
610 PROBLEM CONCERNING THE STRUCTURE OF AN INTERMEDIATE LANGUAGE. 610 JPRS-10777 P. 11
533 ACHINE INPUT AND OUTPUT OF INFORMATION ON THE STRUCTURE OF CHEMICAL COMPOUNDS. M 533 JPRS-8479 P. 77
743 S FOR MACHINE TRANSLATI/ A DESCRIPTION OF THE STRUCTURE OF INDEPENDENT GRAMMATICAL ANALYSI 743 JPRS-13543 P. 231
594 ION. ON THE STRUCTURE OF INFORMATION FOR MACHINE TRANSLAT 594 JPRS-10576 P. 12
242 N. THE STRUCTURE OF INFORMATION FOR MACHINE TRANSLATIO 242 JPRS-893 P. 36
264 SLATION USING AN INTERMEDIARY LANGUAGE. THE STRUCTURE OF SYNTHESIZING RULES IN MACHINE TRAN 264 JPRS-893 P. 81
768 ALYSIS (FOR MACHINE TRANSLATION FROM THE RU/ STRUCTURE OF THE ALGORITHM FOR GRAMMATICAL AN 768 JPRS-13761 P. 28
326 FIRST STAGE OF AN INDEPENDENT ANALYSIS OF THE STRUCTURE OF THE SIMPLE CLAUSE IN ENGLISH. 326 JPRS-2150 P. 166
471 THE STRUCTURE OF THE VIETNAMESE VERB SYNTAGMA. 471 JPRS-6543 P. 120
245 FORMAL MATHEMATICAL LANGUAGE MODELS AND THE STRUCTURE OF TRANSLATION ALGORITHMS. 245 JPRS-893 P. 42
143 A LOGICAL ANALYSIS OF THE CONCEPT OF LANGUAGE STRUCTURE. 143 JPRS-241 P. 43
469 THE STATISTICAL INVESTIGATION OF SYLLABLE STRUCTURE. 469 JPRS-6543 P. 92
513 OF LAMBEK'S BOOK THE MATHEMATICS OF SENTENCE STRUCTURE. REVIEW 513 JPRS-8026 P. 53
244 OSTULATION OF CONSTRUCTS IN STUDYING LANGUAGE STRUCTURE. GENERALIZATION AND P 244 JPRS-893 P. 37
228 BASIS OF ITS STATISTICAL AND THEORETICAL-SET STRUCTURE. MODELING A LANGUAGE ON THE 228 JPRS-893 P. 12
124 E OF FREQUENCY AS A FACTOR IN DETERMINING THE STYLISTIC FUNCTIONS OF WORDS. THE SIGNIFICANC 124 JPRS-241 P. 20
135 TRANSLATION SUB SPECIE STRUCTURALISMI. 135 JPRS-241 P. 33
451 ON THE THEORY OF WORD SUBCLASSES. 451 JPRS-6505 P. 14
729 . AN AUXILIARY STANDARD SUBROUTINE FOR DEBUGGING A PROGRAM (SPO-1) 729 JPRS-13514 P. 107
180 ERSONAL PRONOUNS AND THE NOUNS FOR WHICH THEY SUBSTITUTE. CORRELATION BETWEEN THIRD PERSON P 180 JPRS-241 P. 82
512 ENT IN MACHINE TRANSLATION FROM RUSSIAN TO C/ SUCCESSFUL ACCOMPLISHMENT OF THE FIRST EXPERIM 512 JPRS-8026 P. 51
726 E DETERMINATION OF EIGENVALUES OF MATRICES BY SUCCESSIVE DIAGONALIZATION ON AN ELECTRONIC CO 726 JPRS-13514 P. 1
369 CAL LITERATURE. WORD-FORMING SUFFIXES OF THE ARMENIAN LANGUAGE IN MATHEMATI 369 JPRS-3599 P. 39
155 GENDER AS A SUPERFLUOUS CATEGORY OF THE RUSSSIAN VERB. 155 JPRS-241 P. 56
169 . THE SUPERFLUOUSNESS OF RUSSIAN ADJECTIVE INFLECTION 169 JPRS-241 P. 70
794 ROS IN INDUSTRIAL AND RESEARCH LABORATORIES (SURVEY). THE USE OF PUNCHED CA 794 JPRS-14468
295 A SURVEY OF STRUCTURAL LINGUISTICS. 295 JPRS-992 P. 10
379 CONFERENCE ON MACHINE TRANSLATION IN SWEDEN. 379 JPRS-3629 P. 17
749 FOR INDEPENDENT MORPHOLOGICAL ANALYSIS OF THE SWEDISH LANGUAGE. ON AN ALGORITHM 749 JPRS-13543 P. 338
469 THE STATISTICAL INVESTIGATION OF SYLLABLE STRUCTURE. 469 JPRS-6543 P. 92
613 CODING THE VIETNAMESE SYLLABLE. 613 JPRS-10808 P. 1
728 ON THE USE OF SYMBOLIC ADDRESSES. 728 JPRS-13514 P. 73
240 PERIMENTAL LABORATORY FOR M/ DEVELOPMENT OF A SYMBOLIC MACHINE TRANSLATION LANGUAGE IN THE EX 240 JPRS-893 P. 34
241 ORITHM. SYMBOLIC RECODING OF A MACHINE TRANSLATION ALG 241 JPRS-893 P. 35
644 SOME APPLICATIONS OF A SCHEME OF SYMBOLISM IN MACHINE PROGRAMMING. 644 JPRS-11701
811 ORITHM FOR THE RECOGNITION OF MACHINE-WRITTEN SYMBOLS. STUDY OF AN ALG 811 JPRS-16343
187 HINES IN CHEMISTRY (USSR). (REPORTS TO THE SYMPOSIUM AT THE 8TH MENDELEYEV CONGRESS ON GENERAL A 187 JPRS-331
402 EECH. SYMPOSIUM ON METHOD OF SPECTRAL ANALYSIS OF SP 402 JPRS-6094 P. 13
440 . SYMPOSIUM ON PROBLEMS OF SPEECH DISCRIMINATION 440 JPRS-6445 P. 15
667 NS WITH ' STRONG GOVERNMENT ' (FOR AUTOMATIC SYNTACTIC ANALYSIS). /R PROCESSING WORD COMBINATIO 667 JPRS-12441
698 N ENGLISH LANGUAGE. SYNTACTIC ANALYSIS OF PREPOSITIONAL GROUPS I 698 JPRS-13173 P. 314
718 THE CODING OF WORDS FOR AN ALGORITHM OF SYNTACTIC ANALYSIS. 718 JPRS-13321
688 PRELIMINARY ARTICULATION OF SENTENCE IN SYNTACTIC ANALYSIS. 688 JPRS-13173 P. 151
691 N MATHEMATICAL TEXTS. ESTABLISHMENT OF SYNTACTIC CONNECTIONS FOR FORMULAS IN RUSSIA 691 JPRS-13173 P. 203
167 ATHEMATICAL TEXTS. DETERMINATION OF SYNTACTIC CONNECTIONS FOR FORMULAS IN RUSSIAN M 167 JPRS-241 P. 68
597 BY THE AJDUKIEWICZ-BAR-HILL/ ESTABLISHMENT OF SYNTACTIC CONNECTIONS IN MACHINE TRANSLATION 597 JPRS-10576 P. 42
474 ON ' CONNECTED ' SYNTACTIC CONSTRUCTIONS IN RUSSIAN. 474 JPRS-6588 P. 14
179 ESTABLISHMENT OF SYNTACTIC CUES FOR PREPOSITIONAL PHRASES. 179 JPRS-241 P. 80
168 ELIMINATION OF MORPHOLOGICAL AND SYNTACTIC HOMONYMY IN ANALYZING ENGLISH TEXTS. 168 JPRS-241 P. 69
689 PS IN THE RUSSIAN LANGUAGE. ESTABLISHING A SYNTACTIC RELATIONSHIP OF PREPOSITIONAL GROU 689 JPRS-13173 P. 155
130 METHODS OF BREAKING DOWN A SYNTACTIC WHOLE. 130 JPRS-241 P. 26
722 ESTABLISHING CORRESPONDENCES (FOR AUTOMATIC SYNTACTICAL ANALYSIS). TWO OPERATORS FOR 722 JPRS-13444
748 SYNTACTICAL INDICATORS FOR WORDS AND SYNTACTICAL ANALYSIS OF CLAUSES. 748 JPRS-13543 P. 315
750 THE PRINCIPLES OF SYNTACTICAL ANALYSIS OF THE TARTAR LANGUAGE. 750 JPRS-13543 P. 355
746 ASES THROUGH FORMAL ANAL/ ON ESTABLISHING THE SYNTACTICAL CONNECTIONS OF PREPOSITIONAL PHR 746 JPRS-13543 P. 289
611 ESCRIPTION OF CONTEXT IN/ THE ELIMINATION OF SYNTACTICAL HOMONYMY ON THE BASIS OF FORMAL O 611 JPRS-10777 P. 38
748 ICAL ANALYSIS OF CLAUSES. SYNTACTICAL INDICATORS FOR WORDS AND SYNTACT 748 JPRS-13543 P. 315
471 THE STRUCTURE OF THE VIETNAMESE VERB SYNTAGMA. 471 JPRS-6543 P. 120

585 A MACHINE TRANSLATION/ OESCRIPTION OF RUSSIAN SYNTAGMAS (IN CONNECTION WITH THE CONSTRUCTION OF 585 JPRS-10429
687 SYNTAGMAS OF THE RUSSIAN LANGUAGE. 687 JPRS-13173 P. 120
157 RUSSIAN SYNTAGMAS. 157 JPRS-241 P. 58
248 THE CONCEPT OF EXPRESSION AND SYNTAGMATIC ANALYSIS. 248 JPRS-893 P. 49
782 SYNTHESIZING SENTENCES IN MT ON THE 8ASIS OF SYNTAGMATIC ANALYSIS. A METHOD OF 782 JPRS-13790 P. 49
708 ON MOOELS OF SYNTAX FOR MACHINE TRANSLATION. 708 JPRS-13197
106 OM ENGLISH TO RUSSIAN. CERTAIN QUESTIONS OF SYNTAX IN CONNECTION WITH MACHINE TRANSLATION FR 106 JPRS-68 P. 48
371 IC COMPUTER. SYNTAX PATTERNS IN ENGLISH STUOIED BY ELECTRON 371 JPRS-3599 P. 50
651 SOME PROBLEMS OF SYNTHESIS FOR AUTOMATIC OIGITAL MACHINES. 651 JPRS-11911
693 ON SYNTHESIS OF A SIMPLE RUSSIAN SENTENCE. 693 JPRS-13173 P. 228
640 N ELECTRONIC COMPUTER PRESENTED TO IT. THE SYNTHESIS OF AN A8STRACT AUTOMATON BY AN EVENT ON A 640 JPRS-11699
657 TRANSLATION INTO RUSSIAN. SYNTHESIS OF FORMS OF RUSSIAN WORDS DURING MACHINE 657 JPRS-12047
772 WORD ORDER IN INDEPENDENT SYNTHESIS OF RUSSIAN SENTENCES. 772 JPRS-13761 P. 84
752 THE CONSTRUCTION OF SENTENCES IN INDEPENDENT SYNTHESIS OF RUSSIAN TEXT MATTER. 752 JPRS-13543 P. 376
156 SLATION. THE SYNTHESIS OF RUSSIAN VER8 FORMS IN MACHINE TRAN 156 JPRS-241 P. 58
694 FORM-GENERATING IN SYNTHESIS OF RUSSIAN WORDS. 694 JPRS-13173 P. 231
158 SYNTHESIS OF THE RUSSIAN CLAUSE. 158 JPRS-241 P. 59
506 NEW METHOD OF SPEECH SPECTRUM SYNTHESIS. 506 JPRS-6997 P. 6
753 IN A SENTENCE IN INDEPENDENT RUSSIAN LANGUAGE SYNTHESIS. AN ALGORITHM FOR ORDERING WORDS 753 JPRS-13543 P. 387
264 AN INTERMEDIARY LANGUAGE. THE STRUCTURE OF SYNTHESIZING RULES IN MACHINE TRANSLATION USING 264 JPRS-893 P. 81
782 SYNTAGMATIC ANALYSIS. A METHOD OF SYNTHESIZING SENTENCES IN MT ON THE BASIS OF 782 JPRS-13790 P. 49
637 SYNTHETIC LANGUAGES FOR BIOLOGY. 637 JPRS-11483 P. 157
490 V/ THE PLACE OF LINGUISTICS IN THE SCIENTIFIC SYSTEM AND THE USE IN LINGUISTICS OF METHODS OE 490 JPRS-6732 P. 1
759 CTERS. AN EXPERIMENT IN CONSTRUCTING A SYSTEM FOR GRAPHIC ANALYSIS OF CHINESE CHARA 759 JPRS-13543 P. 503
671 TO BE EMPLOYED IN AN EXPERIMENTAL MECHANIZED SYSTEM FOR LITERATURE SEARCHING IN THE FIELD OF MEC 671 JPRS-13055
568 G TO STRUCTURAL CHARACTERISTI/ THE ' FILTER ' SYSTEM FOR SEARCHING FOR CHEMICAL COMPOUNDS ACCORDIN 568 JPRS-8991
740 IS OF CHINESE TEXT MATTER IN MACHINE TRANS/ A SYSTEM OF INDEPENDENT CONFIGURATIONAL ANALYS 740 JPRS-13543 P. 165
653 NG AND LOGICAL MACHINE WITH A/ SELECTION OF A SYSTEM OF INSTRUCTIONS FOR A THREE- ADDRESS COMPUTI 653 JPRS-11985
531 HEMICAL COMPOUNDS. A SYSTEM OF RECORDING AND SEARCHING CLASSES OF C 531 JPRS-8479 P. 55
136 . A SYSTEM OF RECORDING SPEECH FOR ORAL TRANSLATION 136 JPRS-241 P. 34
231 NOTES ON THE CASE SYSTEM OF RUSSIAN NOUNS. 231 JPRS-893 P. 21
692 Y OF CERTAIN CONTRAPOSITIONS IN THE INFLEXION SYSTEM OF RUSSIAN NOUNS. ON REDUNDANC 692 JPRS-13173 P. 213
473 OF HOMONYMY IN MACHI/ DESCRIPTION OF THE CASE SYSTEM OF THE RUSSIAN NOUN. (CERTAIN PROBLEMS 473 JPRS-6588 P. 1
601 F APPLYING S. R. RANGANATHAN'S CLASSIFICATION SYSTEM TO THE ORGANIZATION AND RETRIEVAL OF I 601 JPRS-10597 P. 21
115 THE SEQUENCE IN BUILDING A LANGUAGE SYSTEM. 115 JPRS-241 P. 7
554 FORMULATION OF A DOCUMENTATION SYSTEM. 554 JPRS-8938 P. 29
558 THE ' L'UNITE ' DOCUMENTATION SYSTEM. 558 JPRS-8938 P. 43
638 TO STANDARD FORM AND STRUCTURAL FORMULAS INTO SYSTEMATIC NAMES. /ORGANIC COMPOUND NAMES IN 638 JPRS-11483 P. 171
683 ICS AS A THEORY OF RELATIONS BETWEEN LANGUAGE SYSTEMS AND ITS MODERN PRACTICAL APPLICATION. 683 JPRS-13173 P. 1
796 SELF-ORGANIZING SYSTEMS AND THE ABSTRACT THEORY OF COMPUTERS. 796 JPRS-14624
225 I/ A THEORY OF THE RELATIONS BETWEEN LANGUAGE SYSTEMS AND THE PRINCIPLES OF COMPARATIVE HISTOR 225 JPRS-893 P. 3
350 NTITY OF COORDINATE DESCRIPTIONS OF IMAGES IN SYSTEMS FOR RECOGNITION OF VISIBLE PATTERNS (CHARAC 350 JPRS-3570
530 EACTIONS AND CERTAIN METHODS OF PROCESSING I/ SYSTEMS FOR RECORDING INFORMATION ON ORGANIC R 530 JPRS-8479 P. 23
526 RGANIC CHEMISTRY. ON CERTAIN SYSTEMS FOR RECORDING STRUCTURAL FORMULAS IN O 526 JPRS-8372 P. 36
199 MACHINE TRANSLATION AND THE ESTABLISHMENT OF SYSTEMS OF AGREEMENTS BETWEEN LANGUAGES. 199 JPRS-487 P. 27
545 HISTORICAL NOTES ABOUT THE SYSTEMS OF DOCUMENTATION. 545 JPRS-8938 P. 4
436 WHAT IS THE DIFFERENCE BETWEEN SIGN SYSTEMS. 436 JPRS-6347 P. 26
737 TABLISHING CORRESPOND- ENCES BETWEEN LANGUAGE SYSTEMS. MACHINE TRANSLATION AND ES 737 JPRS-13543 P. 57
630 EMATICAL LOGIC THEORIES OF INFORMATION SEARCH SYSTEMS. /POSSIBILITIES OF CONSTRUCTING MATH 630 JPRS-11483 P. 17
716 OING A READING DEVICE). CLASSIFICATION OF A TABLE OF RUSSIAN GRAPHEMES (ON THE PROBLEM OF BUIL 716 JPRS-13256
751 A TABLE OF TARTAR-RUSSIAN CORRESPONDENCES. 751 JPRS-13543 P. 366
361 DEVICE FOR RECORDING IMAGES ON PUNCHED TAPE. 361 JPRS-3598 P. 23
750 THE PRINCIPLES OF SYNTACTICAL ANALYSIS OF THE TARTAR LANGUAGE. 750 JPRS-13543 P. 355
751 A TABLE OF TARTAR-RUSSIAN CORRESPONDENCES. 751 JPRS-13543 P. 366
221 THE FIELD OF LOGIC. URGENT TASKS OF SCIENTIFIC RESEARCH AND EDUCATIONAL WORK IN 221 JPRS-863
337 C AND TECHNICAL INFORMATION AND ITS IMMEDIATE TASKS. THE ALL-UNION INSTITUTE OF SCIENTIFI 337 JPRS-3433 P. 1
356 ENCE ON UTILIZATION OF TECHNICAL EQUIPMENT IN TEACHING FOREIGN LANGUAGES. CONFER 356 JPRS-3597 P. 8
212 SCIENTIFIC AND TECHNICAL CONFERENCE ON CYBERNETICS. 212 JPRS-662 P. 1
356 ES. CONFERENCE ON UTILIZATION OF TECHNICAL EQUIPMENT IN TEACHING FOREIGN LANGUAG 356 JPRS-3597 P. 8
337 THE ALL-UNION INSTITUTE OF SCIENTIFIC AND TECHNICAL INFORMATION AND ITS IMMEDIATE TASKS. 337 JPRS-3433 P. 1
484 ON. TECHNICAL INFORMATION BUREAUS IN THE SOVIET UNI 484 JPRS-6680 P. 2
485 ORGANIZATION OF TECHNICAL INFORMATION IN THE SOVIET UNION. 485 JPRS-6680 P. 28
160 TRANSLATION METHODS TO THE LEXICAL CODING OF TELEGRAPHIC AND TELEPHONIC COMMUNICATIONS. /INE 160 JPRS-241 P. 62
160 HODS TO THE LEXICAL CODING OF TELEGRAPHIC AND TELEPHONIC COMMUNICATIONS. /INE TRANSLATION MET 160 JPRS-241 P. 62
257 THE CATEGORIES OF NUMBER IN NOUNS AND TENSE IN VERBS IN THE INTERMEDIARY LANGUAGE. 257 JPRS-893 P. 73
491 THE TERMS ' STABILITY ' AND ' IDIOMACY '. 491 JPRS-6732 P. 11
597 N BY THE AJDUKIEWICZ-BAR-HILLEL METHOD AND IN TERMS OF CONFIGURATION ANALYSIS. /TRANSLATIO 597 JPRS-10576 P. 42
673 SED ON STEP-BY-STEP CODING OF THE MEANINGS OF TERMS. /A VOCABULARY OF AN INFORMATION LANGUAGE BA 673 JPRS-13056
366 ROBLEMS IN COMPILING FREQUENCY DICTIONARY AND TEXT). SOME PROCEDURAL P 366 JPRS-3599 P. 16
740 DEPENDENT CONFIGURATIONAL ANALYSIS OF CHINESE TEXT MATTER IN MACHINE TRANSLATION. /M OF IN 740 JPRS-13543 P. 165
807 COMBINATIONS THROUGH STATISTICAL ANALYSIS OF TEXT MATTER. DETERMINING LETTER 807 JPRS-15839 P. 20
752 SENTENCES IN INDEPENDENT SYNTHESIS OF RUSSIAN TEXT MATTER. THE CONSTRUCTION OF 752 JPRS-13543 P. 376
742 MONYMY DURING INDEPENDENT ANALYSIS OF CHINESE TEXT MATTER. ON SOLVING CONVERSION HO 742 JPRS-13543 P. 217
741 GLOSSARY FOR INDEPENDENT ANALYSIS OF CHINESE TEXT MATTER. THE STRUCTURE AND NATURE OF A 741 JPRS-13543 P. 209
739 FOR AUTOMATIC ANALYSIS OF RUSSIAN SCIENTIFIC TEXT MATTER. /ARD OPERATORS FOR AN ALGORITHM 739 JPRS-13543 P. 103
731 VER8 STEMS FOR AUTOMATIC ANALYSIS OF RUSSIAN TEXT MATTER. /PROACH TO THE DETERMINATION OF 731 JPRS-13514 P. 303
706 ACTING BASED ON A STATISTICAL ANALYSIS OF THE TEXT. AUTOMATIC ABSTR 706 JPRS-13196
362 LYSIS OF THREE-LETTER COMBINATIONS IN RUSSIAN TEXT. STATISTICAL ANA 362 JPRS-3598 P. 31
697 ONYMY OF PARTS OF SPEECH IN ANALYZING ENGLISH TEXT. WORD TREATMENT WITH HOM 697 JPRS-13173 P. 305
699 LE WAY OF SIMPLIFYING STRUCTURE OF A LANGUAGE TEXT. ON ANALYSIS AND A POSSIB 699 JPRS-13173 P. 325
511 MATICAL CONFIGURATION IN ENGLISH MATHEMATICAL TEXT. STATISTICAL INVESTIGATION OF GRAM 511 JPRS-8026 P. 40
144 F THE PROBLEM). ANCIENT TEXTS AND MACHINE TRANSLATION (A FORMULATION O 144 JPRS-241 P. 44
476 TRANSLITERATION OF RUSSIAN TEXTS INTO LATIN LETTERS. 476 JPRS-6588 P. 45
164 AN ALGORITHM FOR TRANSLATING ENGLISH TEXTS ON RADIO ENGINEERING INTO RUSSIAN. 164 JPRS-241 P. 67
132 LINGUISTIC STATISTICS FROM RUSSIAN TEXTS. 132 JPRS-241 P. 30
579 IONAL INSTRUCTIONS FOR DIAGRAMMING SCIENTIFIC TEXTS. PROVIS 579 JPRS-10367 P. 38
168 L AND SYNTACTIC HOMONYMY IN ANALYZING ENGLISH TEXTS. ELIMINATION OF MORPHOLOGICA 168 JPRS-241 P. 69
468 ICTIONARY, BASED ON MATERIAL FROM MATHEMATICS TEXTS. ON THE RUSSIAN FREQUENCY D 468 JPRS-6543 P. 86
167 NECTIONS FOR FORMULAS IN RUSSIAN MATHEMATICAL TEXTS. DETERMINATION OF SYNTACTIC CON 167 JPRS-241 P. 68
691 NECTIONS FOR FORMULAS IN RUSSIAN MATHEMATICAL TEXTS. ESTABLISHMENT OF SYNTACTIC CON 691 JPRS-13173 P. 203

311 AND AUTOMATION OF THE PROCESS OF PROGRAMMING
665 LAR HYSTERESIS LOOPS AND METHODS OF MEASURING
129 HEGEL'S
269 ON- LOGICAL LANGUAGES FOR A MACHINE SEARCH OF
593 CERTAIN
198
139 S TO THE PROBLEMS AND METHODS OF CONTEMPORARY
501 OK SEMASIOLOGIYA (SEMASIOLOGY). SOME
417 REMARKS ON THE ' INTRODUCTION ' (TO '
418 CONCERNING THE PROBLEMATIC REPORT ON '
416
233 NOTION OF A ' SET OF MARKED PHRASES ' IN THE
228 LANGUAGE ON THE BASIS OF ITS STATISTICAL AND
630 SIBILITIES OF CONSTRUCTING MATHEMATICAL LOGIC
281 INFORMATION
394 INFORMATION
359 SOME PROBLEMS IN THE
796 SELF-ORGANIZING SYSTEMS AND THE ABSTRACT
127 LYING IT TO THE THEORY OF TRANSLAT/ A GENERAL
277 THE
577 A
764 CEPTRONS.
408 BASIC
409 BASIC
410 CHINE.
126 UISTIC RELATIONSHIP. THE
683 NO ITS MODERN PRACTICAL APP/ LINGUISTICS AS A
208 NING GRAMMATICAL CONCEPTS ON THE BASIS OF THE
225 AND THE PRINCIPLES OF COMPARATIVE HISTORI/ A
134 A FORMAL
412 OF A. V. FEDEROV'S BOOK ' INTRODUCTION TO THE
224 CS. A GENERAL LINGUISTIC
127 ION AND THE POSSIBILITY OF APPLYING IT TO THE
120 E TRANSLATION. A GENERAL
451 ON THE
547 INFORMATION
346 COMMUNICATION
203 SOVIETS SAY MACHINE TRANSLATORS TO BE COMMON
690 ON ANALYSIS OF
653 / SELECTION OF A SYSTEM OF INSTRUCTIONS FOR A
362 STATISTICAL ANALYSIS OF
461 ISTIC UTTERANCE OF RUSSIAN/ STATISTICS ON THE
649 E FREQUENCY OF RANDOM/ THE DEPENDENCE OF THE
465 PROBABILITY DETERMINATION OF LINGUISTIC
232 PASIGRAPHY WITH THE MATHEMATICAL SIGNS OF
528 HE PROBLEM OF SEARCHING CHEMICAL ABSTRACTS BY
686 NGUAGES. ON TRANSLATION OF
268 MACHINE SEARCH OF
422 INTRODUCTION (TO LA
762 EXPERIMENTS IN
137 LANGUAGE
714 AN OUTLINE OF A SEMANTIC LANGUAGE FOR
395 WHAT IS
401 VE RELATIONS BETWEEN WORDS (AN EXPERIMENT IN
622 LOGICAL PROBLEMS TO AN OPTIMAL FORM. ON THE
498 ON
164 INTO RUSSIAN. AN ALGORITHM FOR
145 AN ALGORITHM FOR
251 THE TREATMENT OF COORDINATING CONJUNCTIONS IN
766 ON LANGUAGE FOR GEOMETRY AND AN ALGORITHM FOR
444 SIAN. AN ALGORITHM FOR
661 THE
702 SOME PRELIMINARY REQUIREMENTS FOR A
634 FORMULAS. ALGORITHMIC APPROACHES TO THE
632 EMISTRY INTO CANONICAL NOTA/ AN ALGORITHM FOR
367 OF THE RUSSIAN VERB FROM CONTEXT (IN MACHINE
732 ONYMY OF MORPHEMES DURING ANALYSIS IN MACHINE
473 UN. (CERTAIN PROBLEMS OF HOMONYMY IN MACHINE
195 F PANOV'S AVTOMATICHESKIY PEREVOD (AUTOMATIC
144 ANCIENT TEXTS AND MACHINE
404 A. KENT'S ' MACHINE LITERATURE SEARCHING AND
412 EOEROV'S BOOK ' INTRODUCTION TO THE THEORY OF
679 SOME PROBLEMS OF MACHINE
585 CONNECTION WITH THE CONSTRUCTION OF A MACHINE
779 R/ AN INFORMATION LANGUAGE FOR GEOMETRY AND A
520 RUSSIAN-GEORGIAN MACHINE
166 A FRENCH-RUSSIAN
241 SYMBOLIC RECORDING OF A MACHINE
447 USSIAN MACHINE TRANSLATION. FRENCH-TO-RUSSIAN
311 ROCESS OF PROGRAMMIN/ OPERATOR DESCRIPTION OF
365 OPERATOR DESCRIPTION OF
385 OPERATOR DESCRIPTION OF
239 OPERATOR DESCRIPTION OF
245 EMATICAL LANGUAGE MODELS AND THE STRUCTURE OF
340 ON FOR THE STUDY AND DEVELOPMENT OF AUTOMATIC
560 MMON POINTS BETWEEN THE PROBLEMS OF AUTOMATIC
737 S BETWEEN LANGUAGE SYSTEMS. MACHINE
110 THE METALANGUAGE OF MACHINE
316 META-LANGUAGE OF MACHINE
495 ISSUE OF YUGOSLAV JOURNAL DEVOTED TO MACHINE

THEM. /R DESCRIPTION OF TRANSLATION ALGORITHMS 311 JPRS-1145 P. 27
THEM. /SE PROPERTIES OF FERRITE CORES WITH RECTANGU 665 JPRS-12133
THEOREM AND LINGUISTIC PARADOXES. 129 JPRS-241 P. 25
THEOREMS AND DEDUCTION OF EFFECTS. /G INFORMATI 269 JPRS-893 P. 87
THEOREMS OF FORMAL MORPHOLOGY. 593 JPRS-10576 P. 1
THEORETICAL AND APPLIED LINGUISTICS. 198 JPRS-487 P. 25
THEORETICAL LINGUISTICS IN ANCIENT INDIAN GRAMM 139 JPRS-241 P. 37
THEORETICAL POSITIONS OF V. A. ZVEGINTSEV'S BO 501 JPRS-6938 P. 11
THEORETICAL PROBLEMS OF LINGUISTICS '). 417 JPRS-6236 P. 12
THEORETICAL PROBLEMS OF LINGUISTICS '. 418 JPRS-6236 P. 29
THEORETICAL PROBLEMS OF LINGUISTICS. 416 JPRS-6236 P. 1
THEORETICAL SET CONCEPT OF O. S. KULAGINA. /THE 233 JPRS-893 P. 24
THEORETICAL-SET STRUCTURE. MODELING A 228 JPRS-893 P. 12
THEORIES OF INFORMATION SEARCH SYSTEMS. /POS 630 JPRS-11483 P. 17
THEORY AND LINGUISTICS. 281 JPRS-893 P. 102
THEORY AND LINGUISTICS. 394 JPRS-3796 P. 12
THEORY OF CODING. 359 JPRS-359B P. 1
THEORY OF COMPUTERS. 796 JPRS-14624
THEORY OF DEFINITION AND THE POSSIBILITY OF APP 127 JPRS-241 P. 23
THEORY OF EQUIVALENT CODES. 277 JPRS-893 P. 98
THEORY OF G-ORDERS. 577 JPRS-10367 P. 8
THEORY OF INSTRUCTION FOR ONE CLASS OF DISCRETE PER 764 JPRS-13725
THEORY OF PATTERN RECOGNITION (I). 408 JPRS-6135 P. 1
THEORY OF PATTERN RECOGNITION (II). 409 JPRS-6135 P. 21
THEORY OF PATTERN RECOGNITION AND A READING MA 410 JPRS-6135 P. 49
THEORY OF PROBABILITY AND DETERMINATION OF LING 126 JPRS-241 P. 22
THEORY OF RELATIONS BETWEEN LANGUAGE SYSTEMS A 683 JPRS-13173 P. 1
THEORY OF SETS. ONE METHOD OF DEFI 208 JPRS-646 P. 1
THEORY OF THE RELATIONS BETWEEN LANGUAGE SYSTEMS 225 JPRS-893 P. 3
THEORY OF THE SENTENCE. 134 JPRS-241 P. 31
THEORY OF TRANSLATION '. REVIEW 412 JPRS-6152 P. 1
THEORY OF TRANSLATION AND MATHEMATICAL LINGUSITI 224 JPRS-893 P. 1
THEORY OF TRANSLATION DEVICES. /EORY OF DEFINIT 127 JPRS-241 P. 23
THEORY OF TRANSLATION IN CONNECTION WITH MACHIN 120 JPRS-241 P. 15
THEORY OF WORD SUBCLASSES. 451 JPRS-6505 P. 14
THEORY. 547 JPRS-8938 P. 8
THEORY. 346 JPRS-3502 P. 40
THING BY 1960. 203 JPRS-487 P. 33
THIRD-PERSON PRONOUN. 690 JPRS-13173 P. 192
THREE- ADDRESS COMPUTING AND LOGICAL MACHINE WITH A 653 JPRS-11985
THREE-LETTER COMBINATIONS IN RUSSIAN TEXT. 362 JPRS-3598 P. 31
TIME DISTRIBUTION OF SEGMENTS OF THE CHARACTER 461 JPRS-6543 P. 31
TIME OF CALCULATION ON THE STEP LENGTH AND TH 649 JPRS-11844 P. 15
TIME. 465 JPRS-6543 P. 57
TIROYAN. 232 JPRS-893 P. 23
TITLE. T 52B JPRS-8479 P. 1
TITLES OF CHEMICAL PAPERS INTO INFORMATION LA 686 JPRS-13173 P. 99
TITLES. 268 JPRS-893 P. 86
TRADUCTION AUTOMATIQUE). 422 JPRS-6239 P. 1
TRAINING A MACHINE TO DISTINGUISH VISUAL SHAPES. 762 JPRS-13694
TRAINING FOR BLIND DEAF-MUTES. 137 JPRS-241 P. 35
TRANSCRIPTION 714 JPRS-13254
TRANSFORM ANALYSIS. 395 JPRS-3796 P. 32
TRANSFORMATION ANALYSIS). /ISHMENT OF DERIVATI 401 JPRS-6094 P. 1
TRANSFORMATION OF PROGRAMS FOR SOLVING COMPLEX 622 JPRS-11088 P. 1
TRANSFORMATIONS OF PROGRAM FLOW DIAGRAMS. 498 JPRS-6868
TRANSLATING ENGLISH TEXTS ON RADIO ENGINEERING 164 JPRS-241 P. 67
TRANSLATING FRENCH INTO RUSSIAN ELECTRONICALLY. 145 JPRS-241 P. 45
TRANSLATING FROM INPUT LANGUAGE INTO INTERMEDIA 251 JPRS-893 P. 63
TRANSLATING FROM RUSSIAN LANGUAGE INTO AN INFO 766 JPRS-13761 P. 1
TRANSLATING FROM THE ENGLISH LANGUAGE INTO RUS 444 JPRS-6492 P. 41
TRANSLATING MACHINE. 661 JPRS-12049
TRANSLATING MACHINE. 702 JPRS-13194
TRANSLATING OF INORGANIC COMPOUND NAMES INTO 634 JPRS-11483 P. 134
TRANSLATING STRUCTURAL FORMULAS IN ORGANIC CH 632 JPRS-11483 P. 63
TRANSLATION). DETERMINING ASPECT 367 JPRS-3599 P. 29
TRANSLATION). /AGE (FOR DISTINCTION OF HOM 732 JPRS-13514 P. 313
TRANSLATION). /E CASE SYSTEM OF THE RUSSIAN NO 473 JPRS-65B8 P. 1
TRANSLATION).EXTRACTS FROM THE SECOND EDITION O 195 JPRS-487 P. 1
TRANSLATION (A FORMULATION OF THE PROBLEM). 144 JPRS-241 P. 44
TRANSLATION '. REVIEW OF 404 JPRS-6094 P. 26
TRANSLATION '. REVIEW OF A. V. F 412 JPRS-6152 P. 1
TRANSLATION ABROAD. 679 JPRS-13135
TRANSLATION ALGORITHM). /F RUSSIAN SYNTAGMAS (IN 585 JPRS-10429
TRANSLATION ALGORITHM FROM RUSSIAN TO THE INFO 779 JPRS-13790 P. 5
TRANSLATION ALGORITHM. 520 JPRS-8313
TRANSLATION ALGORITHM. 166 JPRS-241 P. 68
TRANSLATION ALGORITHM. 241 JPRS-893 P. 35
TRANSLATION ALGORITHM. FRENCH-TO-R 447 JPRS-6494 P. 14
TRANSLATION ALGORITHMS AND AUTOMATION OF THE P 311 JPRS-1145 P. 27
TRANSLATION ALGORITHMS. 365 JPRS-3599 P. 5
TRANSLATION ALGORITHMS. 385 JPRS-375B P. 1
TRANSLATION ALGORITHMS. 239 JPRS-893 P. 33
TRANSLATION ALGORITHMS. FORMAL MATH 245 JPRS-893 P. 42
TRANSLATION AND APPLIED LINGUISTICS. ASSOCIATI 340 JPRS-3474
TRANSLATION AND AUTOMATIC DOCUMENTATION. CO 560 JPRS-B93B P. 46
TRANSLATION AND ESTABLISHING CORRESPONDENCE 737 JPRS-13543 P. 57
TRANSLATION AND ITS APPLICATION. 110 JPRS-241 P. 1
TRANSLATION AND ITS APPLICATION. 316 JPRS-2150 P. 26
TRANSLATION AND LANGUAGE STATISTICS. ENTIRE 495 JPRS-6732 P. 46

224 A GENERAL LINGUISTIC THEORY OF TRANSLATION ANO MATHEMATICAL LINGUSITICS. 224 JPRS-893 P. 1
249 INTERMEOIARY LANGUAGE FOR MACHINE TRANSLATION ANO PRINCIPLES OF ITS CONSTRUCTION. 249 JPRS-893 P. 52
373 BIBLIOGRAPHY OF ARTICLES ON MACHINE TRANSLATION ANO RELATEO OISCIPLINES, 1957-1958 373 JPRS-3599 P. 55
199 AGREEMENTS BETWEEN LANGUAGES. MACHINE TRANSLATION ANO THE ESTABLISHMENT OF SYSTEMS OF 199 JPRS-487 P. 27
107 ANGUAGE. MACHINE TRANSLATION ANO THE PROBLEM OF AN INTERMEOIARY L 107 JPRS-68 P. 58
515 F THE MEETINGS OF THE ASSOCIATION FOR MACHINE TRANSLATION ANO THE SEMINAR ON SEMIOTICS ANO S 515 JPRS-8026 P. 57
335 LEMS OF WORK-ORDER IN RUSSIAN-CHINESE MACHINE TRANSLATION ANO THEIR SOLUTIONS. PROB 335 JPRS-3356
425 AUTOMATIC TRANSLATION AROUND THE WORLO. 425 JPRS-6239 P. 16
431 AUTOMATIC TRANSLATION AROUNO THE WORLO. 431 JPRS-6240 P. 14
496 TRANSLATION BY AN ELECTRONIC MACHINE. 496 JPRS-6732 P. 48
696 THM OF ANALYSIS OF THE ENGLISH LANGUAGE (FOR TRANSLATION BY MEANS OF AN INTERMEOIARY LANG 696 JPRS-13173 P. 281
399 AUTOMATIC TRANSLATION BY THE ' YAMATO ' COMPUTER. 399 JPRS-3948
597 BLISHMENT OF SYNTACTIC CONNECTIONS IN MACHINE TRANSLATION BY THE AJOUKIEWICZ-BAR-HILLEL MET 597 JPRS-10576 P. 42
774 CH UNIT, CAMBRIDGE,/ ESSAYS ON ANO IN MACHINE TRANSLATION BY THE CAMBRIDGE LANGUAGE RESEAR 774 JPRS-13761 P. 102
127 E POSSIBILITY OF APPLYING IT TO THE THEORY OF TRANSLATION OEVICES. /EORY OF OEFINITION ANO TH 127 JPRS-241 P. 23
510 FRENCH-TO-RUSSIAN MACHINE TRANSLATION EXPERIMENTS. 510 JPRS-8026 P. 27
118 THE SIGNIFICANCE OF MACHINE TRANSLATION FOR LINGUISTICS. 118 JPRS-241 P. 13
142 STEMS IN CONSTRUCTING AN ALGORITHM OF MACHINE TRANSLATION FOR SPANISH (A STATISTICAL INQUIRY 142 JPRS-241 P. 42
288 GRAMMATICAL ANALYSIS IN MACHINE TRANSLATION FROM CHINESE INTO RUSSIAN. 288 JPRS-925 P. 83
756 ANALYSIS OF AUXILIARY WORDS IN BINARY MACHINE TRANSLATION FROM CHINESE TO RUSSIAN. AN 756 JPRS-13543 P. 436
755 SIS OF CLOSED CONSTRUCTIONS IN BINARY MACHINE TRANSLATION FROM CHINESE TO RUSSIAN.AN ANALY 755 JPRS-13543 P. 423
150 THE PROGRAMMING OF TRANSLATION FROM ENGLISH INTO RUSSIAN. 150 JPRS-241 P. 50
170 AN ALGORITHM OF MACHINE TRANSLATION FROM ENGLISH INTO RUSSIAN. 170 JPRS-241 P. 71
209 ROBLEMS IN DISTINGUISHING HOMONYMS IN MACHINE TRANSLATION FROM ENGLISH INTO RUSSIAN. P 209 JPRS-646 P. 19
285 CTIONARY AND GRAMMATICAL ROUTINES FOR MACHINE TRANSLATION FROM ENGLISH INTO RUSSIAN. /THE DI 285 JPRS-925 P. 36
106 UESTIONS OF SYNTAX IN CONNECTION WITH MACHINE TRANSLATION FROM ENGLISH TO RUSSIAN. CERTAIN Q 106 JPRS-68 P. 48
103 MACHINE TRANSLATION FROM FRENCH TO RUSSIAN. 103 JPRS-68 P. 9
655 THE PROGRAM. ON MACHINE TRANSLATION FROM FRENCH TO RUSSIAN, OESCRIPTION OF 655 JPRS-12046
205 MACHINE TRANSLATION FROM FRENCH. 205 JPRS-621 P. 1
210 MACHINE TRANSLATION FROM HUNGARIAN INTO RUSSIAN. 210 JPRS-646 P. 28
256 RY LANGUAGE. THE CALCULATION OF VALENCES IN TRANSLATION FROM INPUT LANGUAGE INTO INTERMEOIA 256 JPRS-893 P. 73
289 SOME PRINCIPLES IN MACHINE TRANSLATION FROM JAPANESE INTO RUSSIAN. 289 JPRS-925 P. 93
161 SOME PROBLEMS IN MACHINE TRANSLATION FROM JAPANESE INTO RUSSIAN. 161 JPRS-241 P. 63
325 MACHINE TRANSLATION FROM JAPANESE INTO RUSSIAN. 325 JPRS-2150 P. 161
191 THE AUTOMATIZATION OF TRANSLATION FROM ONE LANGUAGE TO ANOTHER. 191 JPRS-379
270 ATION LANGUAGE FOR GEOMETRY AND THE RULES FOR TRANSLATION FROM RUSSIAN INTO AN INFORMATION LA 270 JPRS-893 P. 90
685 ATION LANGUAGE FOR GEOMETRY AND ALGORITHM FOR TRANSLATION FROM RUSSIAN INTO INFORMATION LAN 685 JPRS-13173 P. 52
512 MPLISHMENT OF THE FIRST EXPERIMENT IN MACHINE TRANSLATION FROM RUSSIAN TO CHINESE. /FUL ACCO 512 JPRS-8026 P. 51
284 ANALYSIS OF PUNCTUATION MARKS IN MACHINE TRANSLATION FROM RUSSIAN. 284 JPRS-925 P. 25
172 ANALYSIS OF PUNCTUATION MARKS OURING MACHINE TRANSLATION FROM RUSSIAN. 172 JPRS-241 P. 73
183 'THE GENERAL PRINCIPLES OF MACHINE TRANSLATION FROM THE CHINESE LANGUAGE. 183 JPRS-319 P. 10
743 INOEPENOENT GRAMMATICAL ANALYSIS FOR MACHINE TRANSLATION FROM THE GERMAN LANGUAGE. /RE OF 743 JPRS-13543 P. 231
768 ORITHM FOR GRAMMATICAL ANALYSIS (FOR MACHINE TRANSLATION FROM THE RUSSIAN LANGUAGE). /ALG 768 JPRS-13761 P. 28
120 ION. A GENERAL THEORY OF TRANSLATION IN CONNECTION WITH MACHINE TRANSLAT 120 JPRS-241 P. 15
280 AUTOMATIC PROGRAMMING AS TRANSLATION IN FORMAL LANGUAGES. 280 JPRS-893 P. 101
344 PROBLEMS OF MACHINE TRANSLATION IN MOSCOW. 344 JPRS-3502 P. 16
379 CONFERENCE ON MACHINE TRANSLATION IN SWEOEN. 379 JPRS-3629 P. 17
303 RESEARCH ON MACHINE TRANSLATION IN THE CHINESE PEOPLE'S REPUBLIC. 303 JPRS-1131
343 FERENCE ON MATHEMATICAL LINGUISTICS/ MACHINE TRANSLATION IN THE USSR (EXPERIENCE AT THE CON 343 JPRS-3502 P. 4
215 WORK ON MACHINE TRANSLATION IN THE USSR. 215 JPRS-662 P. 11
720 SOME PROBLEMS OF MACHINE TRANSLATION IN THE USSR. 720 JPRS-13439
508 S AND SUGGESTIONS RELATIVE TO WORK ON MACHINE TRANSLATION IN THE USSR. SOME REMARK 50B JPRS-8026 P. 1
657 ESIS OF FORMS OF RUSSIAN WORDS OURING MACHINE TRANSLATION INTO RUSSIAN. SYNTH 657 JPRS-12047
201 CHINESE-TO-RUSSIAN MACHINE TRANSLATION IS PROGRESSING. 201 JPRS-487 P. 31
240 TORY FOR M/ OEVELOPMENT OF A SYMBOLIC MACHINE TRANSLATION LANGUAGE IN THE EXPERIMENTAL LABORA 240 JPRS-893 P. 34
389 THE JAPANESE TRANSLATION MACHINE ' YAMATO '. 389 JPRS-3758 P. 61
397 THE TRANSLATION MACHINE OF P. P. TROYANSKIY. 397 JPRS-3797
348 THE TRANSLATION MACHINE OF P. P. TROYANSKIY. 348 JPRS-3532
503 MECHANICAL TRANSLATION MACHINE. 503 JPRS-6968
160 LEGRAPHIC AND TELEPH/ APPLICATIONS OF MACHINE TRANSLATION METHOOS TO THE LEXICAL COOING OF TE 160 JPRS-241 P. 62
159 GRAMMATICAL ANALYSIS FOR MACHINE TRANSLATION OF CHINESE INTO RUSSIAN. 159 JPRS-241 P. 60
307 MACHINE TRANSLATION OF CHINESE INTO RUSSIAN. 307 JPRS-1133
174 RUSSIAN. MACHINE TRANSLATION OF COMPOUNO NOUNS FROM GERMAN INTO 174 JPRS-241 P. 76
286 AN. MACHINE TRANSLATION OF GERMAN COMPOUNO NOUNS INTO RUSSI 286 JPRS-925 P. 64
767 NE. EXPERIMENT OF MULTILINGUAL TRANSLATION OF NUMERALS ON THE ' URAL ' MACHI 767 JPRS-13761 P. 19
638 TANOARO FORM ANO STRUCTURA/ AUTOMATION OF THE TRANSLATION OF ORGANIC COMPOUND NAMES INTO S 638 JPRS-11483 P. 171
757 THE LINGUISTIC PROBLEMS OF TRANSLATION OF POETRY. 757 JPRS-13543 P. 448
686 INFORMATION LANGUAGES. ON TRANSLATION OF TITLES OF CHEMICAL PAPERS INTO 686 JPRS-13173 P. 99
609 1 TO 999999.COMPOSITION OF ALGORITHMS FOR THE TRANSLATION OF WHOLE NUMBER OESIGNATIONS FROM 609 JPRS-10777 P. 1
165 AUTOMATIZATION OF TRANSLATION PROGRAMMING. 165 JPRS-241 P. 67
406 RUSSIAN-TO-GEORGIAN MACHINE TRANSLATION PROGRESSING. 406 JPRS-6094 P. 29
591 FFECTIVENESS OF GENERAL-PURPOSE COMPUTERS FOR TRANSLATION PURPOSES. E 591 JPRS-10509
213 COMMISSION ON APPLIED LINGUISTICS ANO MACHINE TRANSLATION SET UP IN ARMENIA. 213 JPRS-662 P. 6
116 E OF THE ACAOEMY OF SCIENCES USSR. MACHINE TRANSLATION STUOIES IN THE MATHEMATICAL INSTITUT 116 JPRS-241 P. 8
135 TRANSLATION SUB SPECIE STRUCTURALISMI. 135 JPRS-241 P. 33
314 THE SIGNIFICANCE OF MACHINE TRANSLATION TO LINGUISTICS. 314 JPRS-2150 P. 2
264 HE STRUCTURE OF SYNTHESIZING RULES IN MACHINE TRANSLATION USING AN INTERMEOIARY LANGUAGE. T 264 JPRS-893 P. 81
625 ON THE RUSSIAN LANGUAGE IN MACHINE TRANSLATION WORK OONE ABROAO. 625 JPRS-11305
102 FUNOAMENTAL PROBLEMS OF MACHINE TRANSLATION. 102 JPRS-68 P. 1
708 ON MOOELS OF SYNTAX FOR MACHINE TRANSLATION. 708 JPRS-13197
242 THE STRUCTURE OF INFORMATION FOR MACHINE TRANSLATION. 242 JPRS-893 P. 36
724 A OISCUSSION OF MACHINE TRANSLATION. 724 JPRS-13478
104 LIMITS OF APPLICABILITY OF MACHINE TRANSLATION. 104 JPRS-68 P. 30
274 SOME OECOOING PROBLEMS IN MACHINE TRANSLATION. 274 JPRS-893 P. 96
105 CERTAIN LINGUISTIC PROBLEMS IN MACHINE TRANSLATION. 105 JPRS-68 P. 36
283 SOME GENERAL PROBLEMS IN MACHINE TRANSLATION. 283 JPRS-925 P. 1
111 SOME GENERAL PROBLEMS IN MACHINE TRANSLATION. 111 JPRS-241 P. 1
117 AN INTERMEDIARY LANGUAGE MODEL FOR MACHINE TRANSLATION. 117 JPRS-241 P. 11
121 SPECTRA OF PHONEMES AND THEIR USE IN MACHINE TRANSLATION. 121 JPRS-241 P. 17
128 LINGUISTIC PROBLEMS CONNECTED WITH POETRY TRANSLATION. 128 JPRS-241 P. 24

136 A SYSTEM OF RECORDING SPEECH FOR ORAL TRANSLATION. 136 JPRS-241 P. 34
175 PROPER NOUNS IN MACHINE TRANSLATION. 175 JPRS-241 P. 77
185 AN INTERMEDIARY LANGUAGE MODEL FOR MACHINE TRANSLATION. 185 JPRS-319 P. 25
189 SOVIET DEVELOPMENT IN MACHINE TRANSLATION. 189 JPRS-335
196 CONFERENCE ON MACHINE TRANSLATION. 196 JPRS-487 P. 21
219 SIMPLE EXPLANATION OF MACHINE TRANSLATION. 219 JPRS-729
301 THE ANALYSIS OF JAPANESE IN MACHINE TRANSLATION. 301 JPRS-1130
342 PROBLEMS OF MACHINE TRANSLATION. 342 JPRS-3502 P. 1
429 GRAMMATICAL STRUCTURE AND AUTOMATIC TRANSLATION. 429 JPRS-6240 P. 1
443 FRENCH-TO-RUSSIAN MACHINE TRANSLATION. 443 JPRS-6492 P. 1
380 NEW PUBLICATION ON MACHINE TRANSLATION. 380 JPRS-3629 P. 18
388 THE CONJUNCTION I IN MACHINE TRANSLATION. 388 JPRS-3758 P. 52
370 AN INTERNATIONAL KEY FOR TRANSLATION. 370 JPRS-3599 P. 43
156 HE SYNTHESIS OF RUSSIAN VERB FORMS IN MACHINE TRANSLATION. T 156 JPRS-241 P. 58
162 ORK ON THE RUSSO-ENGLISH ALGORITHM OF MACHINE TRANSLATION. W 162 JPRS-241 P. 64
176 ORK ON A BURMESE-RUSSIAN ALGORITHM OF MACHINE TRANSLATION. W 176 JPRS-241 P. 78
177 ORK ON AN ARABIC-RUSSIAN ALGORITHM OF MACHINE TRANSLATION. W 177 JPRS-241 P. 79
594 ON THE STRUCTURE OF INFORMATION FOR MACHINE TRANSLATION. 594 JPRS-10576 P. 12
607 THE CULTURAL SIGNIFICANCE OF MACHINE TRANSLATION. 607 JPRS-10721 P. 31
736 ON THE FUNDAMENTAL USE OF SENSE IN MACHINE TRANSLATION. 736 JPRS-13543 P. 19
149 RK ON A JAPANESE-RUSSIAN ALGORITHM OF MACHINE TRANSLATION. WO 149 JPRS-241 P. 48
695 ON WORD FORMATIONS IN MACHINE TRANSLATION. 695 JPRS-13173 P. 261
730 MORPHOLOGICAL ANALYSIS IN MACHINE TRANSLATION. 730 JPRS-13514 P. 129
539 ROUTINES FOR ANALYSIS OF GEORGIAN FOR MACHINE TRANSLATION. ON 539 JPRS-8929 P. 1
312 E LENINGRAD ALL-UNIVERSITY SEMINAR ON MACHINE TRANSLATION. TH 312 JPRS-1145 P. 44
153 K ON A NORWEGIAN-RUSSIAN ALGORITHM OF MACHINE TRANSLATION. WOR 153 JPRS-241 P. 54
297 OF THE FIRST ALL-UNION CONFERENCE ON MACHINE TRANSLATION. DOCUMENTS 297 JPRS-1006
319 K ON A NORWEGIAN-RUSSIAN ALGORITHM OF MACHINE TRANSLATION. WOR 319 JPRS-2150 P. 68
738 OPERATIONAL FORM OF AN ALGORITHM FOR MACHINE TRANSLATION. THE 738 JPRS-13543 P. 86
147 ON AN INDONESIAN-RUSSIAN ALGORITHM OF MACHINE TRANSLATION. WORK 147 JPRS-241 P. 46
148 ON A VIETNAMESE-RUSSIAN ALGORITHM OF MACHINE TRANSLATION. WORKS 148 JPRS-241 P. 47
154 STRUCTURE AND INFORMATION CODING FOR MACHINE TRANSLATION. GLOSSARY 154 JPRS-241 P. 56
120 ORY OF TRANSLATION IN CONNECTION WITH MACHINE TRANSLATION. A GENERAL THE 120 JPRS-241 P. 15
138 RINCIPLES IN COMPILING GLOSSARIES FOR MACHINE TRANSLATION. SOME GENERAL P 138 JPRS-241 P. 36
163 USTANI (HINDI)-RUSSIAN ALGORITHM OF MACHINE TRANSLATION. WORK ON A HINO 163 JPRS-241 P. 66
323 USTANI (HINDI)-RUSSIAN ALGORITHM OF MACHINE TRANSLATION. WORK ON HIND 323 JPRS-2150 P. 149
318 ROGRAM FOR AN INDONESIAN ALGORITHM OF MACHINE TRANSLATION. ROOT-SEPARATING P 318 JPRS-2150 P. 61
223 THEMATICAL LINGUISTICS CONNECTED WITH MACHINE TRANSLATION. SOME PROBLEMS IN MA 223 JPRS-893 P. 1
320 ORK ON AN ARABIC-RUSSIAN ALGORITHM OF MACHINE TRANSLATION. INITIAL STAGE OF W 320 JPRS-2150 P. 79
182 INE TRANSLATION, THE POSSIBILITIES OF MACHINE TRANSLATION. EXPERIMENTS WITH MACH 182 JPRS-319 P. 1
780 ATICAL LINGUISTICS IN CONNECTION WITH MACHINE TRANSLATION. QUESTIONS ON MATHEM 780 JPRS-13790 P. 12
598 FORMAL MORPHOLOGY IN CONNECTION WITH MACHINE TRANSLATION. THE CONSTRUCTION OF A 598 JPRS-10576 P. 50
294 THE CONSTRUCTION OF A DICTIONARY FOR MACHINE TRANSLATION. THE PRINCIPLES UNDERLYING 294 JPRS-992 P. 1
378 AND METHODS OF DISTINGUISHING THEM IN MACHINE TRANSLATION. VARIOUS TYPES OF HOMONYMS 378 JPRS-3629 P. 11
754 OF A JAPANESE-RUSSIAN DICTIONARY FOR MACHINE TRANSLATION. THE BASIC CHARACTERISTICS 754 JPRS-13543 P. 413
317 ARY AND THE CODING OF INFORMATION FOR MACHINE TRANSLATION. ON THE STRUCTURE OF A DICTION 317 JPRS-2150 P. 41
151 N-RUSSIAN GLOSSARY OF POLYSEMANTS FOR MACHINE TRANSLATION. PRINCIPLES IN COMPILING A GERMA 151 JPRS-241 P. 50
152 MMATICAL PROGRAMS FOR ENGLISH-RUSSIAN MACHINE TRANSLATION. /FEATURES OF THE GLOSSARY AND GRA 152 JPRS-241 P. 51
119 OF L. V. SHCHERBA AND THE PROBLEMS OF MACHINE TRANSLATION. /ACTIVE ' AND ' PASSIVE ' GRAMMAR 119 JPRS-241 P. 13
446 EM OF COMPILING A STEM DICTIONARY FOR MACHINE TRANSLATION. /ERBS IN CONNECTION WITH THE PROBL 446 JPRS-6494 P. 1
275 SPECIALIZED ELECTRONIC COMPUTERS FOR MACHINE TRANSLATION. /ES UNDERLYING THE CONSTRUCTION OF 275 JPRS-893 P. 96
287 DICTIONARY OF POLYSEMANTIC WORDS FOR MACHINE TRANSLATION. /LES IN COMPILING A GERMAN-RUSSIAN 287 JPRS-925 P. 72
740 AL ANALYSIS OF CHINESE TEXT MATTER IN MACHINE TRANSLATION. /M OF INDEPENDENT CONFIGURATION 740 JPRS-13543 P. 165
240 GE IN THE EXPERIMENTAL LABORATORY FOR MACHINE TRANSLATION. /MBOLIC MACHINE TRANSLATION LANGUA 240 JPRS-893 P. 34
324 N THE VIETNAMESE-RUSSIAN ALGORITHM OF MACHINE TRANSLATION. /MENTS OF INDEPENDENT ANALYSIS I 324 JPRS-2150 P. 154
322 L ANALYSIS OF THE RUSSIAN LANGUAGE IN MACHINE TRANSLATION. /T OF PROGRAMS FOR A MORPHOLOGICA 322 JPRS-2150 P. 99
321 ION OF A BURMESE-RUSSIAN ALGORITHM OF RUSSIAN TRANSLATION. CERTAIN PROBLEMS IN THE CONSTRUCT 321 JPRS-2150 P. 91
447 ORITHM. FRENCH-TO-RUSSIAN MACHINE TRANSLATION. FRENCH-TO-RUSSIAN TRANSLATION ALG 447 JPRS-6494 P. 14
182 ATION. EXPERIMENTS WITH MACHINE TRANSLATION, THE POSSIBILITIES OF MACHINE TRANSL 182 JPRS-319 P. 1
310 TRELA COMPUTER. EXPERIMENTAL TRANSLATIONS FROM FRENCH INTO RUSSIAN ON THE S 310 JPRS-1145 P. 18
178 EXPERIMENTAL TRANSLATIONS FROM FRENCH INTO RUSSIAN. 178 JPRS-241 P. 80
704 EXPERIMENTAL ENGLISH-TO-RUSSIAN TRANSLATIONS ON THE ' STRELA ' MACHINE. 704 JPRS-13195
247 (ON WAYS OF CREATING A SELF-TEACHING MACHINE TRANSLATOR). /NGUAGE AND THE PLANE OF CONTENT 247 JPRS-893 P. 44
203 SOVIETS SAY MACHINE TRANSLATORS TO BE COMMON THING BY 1960. 203 JPRS-487 P. 33
476 TTERS. TRANSLITERATION OF RUSSIAN TEXTS INTO LATIN LE 476 JPRS-6588 P. 45
123 THE TREATMENT OF CERTAIN CONCEPTS IN STRUCTURALISM. 123 JPRS-241 P. 19
251 LATING FROM INPUT LANGUAGE INTO INTERMEDIARY LANGUAGE. THE TREATMENT OF COORDINATING CONJUNCTIONS IN TRANS 251 JPRS-893 P. 63
426 DEWEZE'S BOOK ON AUTOMATIC TREATMENT OF THE RUSSIAN VERB. 426 JPRS-6239 P. 18
697 N ANALYZING ENGLISH TEXT. WORD TREATMENT WITH HOMONYMY OF PARTS OF SPEECH I 697 JPRS-13173 P. 305
630 IES OF CONSTRUCTING MATHEMATICAL LOGIC/ BASIC TRENDS IN MODERN DOCUMENTATION AND POSSIBILIT 630 JPRS-11483 P. 17
397 THE TRANSLATION MACHINE OF P. P. TROYANSKIY. 397 JPRS-3797
348 THE TRANSLATION MACHINE OF P. P. TROYANSKIY. 348 JPRS-3532
424 THOD. THE PROBLEM OF TRUE POLYSEMIA AND THE CONTEXTUAL PARAMETER ME 424 JPRS-6239 P. 10
540 STATISTICS OF TWO-LETTER COMBINATIONS IN LITERARY GEORGIAN. 540 JPRS-8929 P. 4
595 FORMAL DETERMINATION OF TYPES OF COORDINATION (UND AND ORDER). 595 JPRS-10576 P. 22
255 O AN INTERMEDIARY LANGUAGE. TWO TYPES OF GRAMMATICAL INFORMATION WITH RESPECT T 255 JPRS-893 P. 71
378 G THEM IN MACHINE TRANSLATION. VARIOUS TYPES OF HOMONYMS AND METHODS OF DISTINGUISHIN 378 JPRS-3629 P. 11
732 DISTINCTION OF HOMONYMY O/ THE MORPHOLOGICAL TYPES OF STEMS IN THE RUSSIAN LANGUAGE (FOR 732 JPRS-13514 P. 313
226 PRAGUE TYPOLOGY AND LANGUAGE MODELS. 226 JPRS-893 P. 8
253 CH TO THE CONSTRUCTION OF AN INTERMEDIAR/ THE TYPOLOGY OF LEXICAL CORRESPONDENCES (AN APPROA 253 JPRS-893 P. 68
595 RMAL DETERMINATION OF TYPES OF COORDINATION (UND AND ORDER). FO 595 JPRS-10576 P. 22
294 MACHINE TRANSLATION. THE PRINCIPLES UNDERLYING THE CONSTRUCTION OF A DICTIONARY FOR 294 JPRS-992 P. 1
275 TRONIC COMPUTERS FOR MACHINE TRAN/ PRINCIPLES UNDERLYING THE CONSTRUCTION OF SPECIALIZED ELEC 275 JPRS-893 P. 96
484 TECHNICAL INFORMATION BUREAUS IN THE SOVIET UNION. 484 JPRS-6680 P. 2
485 ZATION OF TECHNICAL INFORMATION IN THE SOVIET UNION. ORGANI 485 JPRS-6680 P. 28
576 A SELF-PRIMING AUTOMATIC ANALYSIS UNIT. 576 JPRS-10367 P. 4
774 RANSLATION BY THE CAMBRIDGE LANGUAGE RESEARCH UNIT, CAMBRIDGE, ENGLAND, JUNE 1959. /HINE T 774 JPRS-13761 P. 102
140 THE FREQUENCY OF LEXICAL UNITS IN ENGLISH GEOLOGICAL LITERATURE. 140 JPRS-241 P. 39
681 MACHINE LANGUAGES AS AN ELEMENT OF A UNIVERSAL CODE OF SCIENCE. 681 JPRS-13172
663 LLY INFINITE EXTERNAL MEMORY. THE UNIVERSALITY OF A CALCULATING MACHINE WITH POTENTIA 663 JPRS-12050

767 MULTILINGUAL TRANSLATION OF NUMERALS ON THE ' URAL ' MACHINE. EXPERIMENT OF 767 JPRS-13761 P. 19
789 URGENT PROBLEMS OF STRUCTURAL LINGUISTICS. 789 JPRS-14252
221 ORK IN THE FIELD OF LOGIC. URGENT TASKS OF SCIENTIFIC RESEARCH AND EDUCATIONAL W 221 JPRS-863
187 F INFORMATION-LOGICAL MACHINES IN CHEMISTRY (USSR). (REPORTS TO THE SYMPOSIUM AT THE 8TH MENDELE 187 JPRS-331
343 ICAL LINGUISTICS/ MACHINE TRANSLATION IN THE USSR (EXPERIENCE AT THE CONFERENCE ON MATHEMAT 343 JPRS-3502 P. 4
804 USSR IMPROVES COMPUTERS. 804 JPRS-15787
215 WORK ON MACHINE TRANSLATION IN THE USSR. 215 JPRS-662 P. 11
720 SOME PROBLEMS OF MACHINE TRANSLATION IN THE USSR. 720 JPRS-13439
353 1959 ACTIVITIES OF ASSOCIATION FOR MT IN THE USSR. SPRING 353 JPRS-3597 P. 2
508 ELATIVE TO WORK ON MACHINE TRANSLATION IN THE USSR. SOME REMARKS AND SUGGESTIONS R 508 JPRS-8026 P. 1
116 EMATICAL INSTITUTE OF THE ACADEMY OF SCIENCES USSR. MACHINE TRANSLATION STUDIES IN THE MATH 116 JPRS-241 P. 8
364 OR DEVELOPMENT OF THE NATIONAL ECONOMY OF THE USSR. /IEO LINGUISTICS IN THE SEVEN-YEAR PLAN F 364 JPRS-3599 P. 1
461 ISTRIBUTION OF SEGMENTS OF THE CHARACTERISTIC UTTERANCE OF RUSSIAN VOWELS. /CS ON THE TIME O 461 JPRS-6543 P. 31
256 O INTERMEDIARY LANGUAGE. THE CALCULATION OF VALENCES IN TRANSLATION FROM INPUT LANGUAGE INT 256 JPRS-893 P. 73
618 CERTAIN ASPECTS OF THE CHARACTERISTIC OF VALENCES. 618 JPRS-10814 P. 32
113 THE VALUE OF MATHEMATICAL METHODS IN LINGUISTICS. 113 JPRS-241 P. 6
156 THE SYNTHESIS OF RUSSIAN VERB FORMS IN MACHINE TRANSLATION. 156 JPRS-241 P. 58
367 DETERMINING ASPECT OF THE RUSSIAN VERB FROM CONTEXT (IN MACHINE TRANSLATION). 367 JPRS-3599 P. 29
731 TEXT MA/ AN APPROACH TO THE DETERMINATION OF VERB STEMS FOR AUTOMATIC ANALYSIS OF RUSSIAN 731 JPRS-13514 P. 303
471 THE STRUCTURE OF THE VIETNAMESE VERB SYNTAGMA. 471 JPRS-6543 P. 120
155 DER AS A SUPERFLUOUS CATEGORY OF THE RUSSSIAN VERB. GEN 155 JPRS-241 P. 56
426 'S BOOK ON AUTOMATIC TREATMENT OF THE RUSSIAN VERB. DEWEZE 426 JPRS-6239 P. 18
446 OME DATA ON THE DISTRIBUTION OF MULTIPLE-STEM VERBS IN CONNECTION WITH THE PROBLEM OF COMPILI 446 JPRS-6494 P. 1
257 HE CATEGORIES OF NUMBER IN NOUNS AND TENSE IN VERBS IN THE INTERMEDIARY LANGUAGE. T 257 JPRS-893 P. 73
700 MERICAL DATA PERTAINING TO FORMS OF NOUNS AND VERBS OF RUSSIAN LANGUAGE. SOME NU 700 JPRS-13173 P. 339
142 SOME PROBLEMS CONNECTED WITH THE HANDLING OF VERBS WITH ALTERNATING STEMS IN CONSTRUCTING AN 142 JPRS-241 P. 42
745 E CONSTRUCTION OF RULES FOR ANALYZING ENGLISH VERBS. ON TH 745 JPRS-13543 P. 267
270 RUSSIAN INTO AN INFORMATION LANGUAGE AND VICE VERSA. /TRY AND THE RULES FOR TRANSLATION FROM 270 JPRS-893 P. 90
270 FROM RUSSIAN INTO AN INFORMATION LANGUAGE AND VICE VERSA. /TRY AND THE RULES FOR TRANSLATION 270 JPRS-893 P. 90
613 CODING THE VIETNAMESE SYLLABLE. 613 JPRS-10808 P. 1
471 THE STRUCTURE OF THE VIETNAMESE VERB SYNTAGMA. 471 JPRS-6543 P. 120
393 SIFICATION PRINCIPLES FOR SIMPLE SENTENCES IN VIETNAMESE. CLAS 393 JPRS-3796 P. 1
324 LATI/ ELEMENTS OF INDEPENDENT ANALYSIS IN THE VIETNAMESE-RUSSIAN ALGORITHM OF MACHINE TRANS 324 JPRS-2150 P. 154
148 TION. WORKS ON A VIETNAMESE-RUSSIAN ALGORITHM OF MACHINE TRANSLA 148 JPRS-241 P. 47
350 TIONS OF IMAGES IN SYSTEMS FOR RECOGNITION OF VISIBLE PATTERNS (CHARACTER RECOGNITION DEVICES). 350 JPRS-357D
762 ERIMENTS IN TRAINING A MACHINE TO DISTINGUISH VISUAL SHAPES. EXP 762 JPRS-13694
735 ONE APPROACH TO THE CONSTRUCTION OF A VOCABULARY FOR AN INTERMEDIATE LANGUAGE. 735 JPRS-13543 P. 3
673 -BY-ST/ AN EXPERIMENT IN THE DEVELOPMENT OF A VOCABULARY OF AN INFORMATION LANGUAGE BASED ON STEP 673 JPRS-13056
615 THE CATEGORY OF VOICE IN AN INTERMEDIARY LANGUAGE. 615 JPRS-10808 P. 10
258 THE CATEGORY OF VOICE IN THE INTERMEDIARY LANGUAGE. 258 JPRS-893 P. 74
462 THEIR DURATI/ STATISTICS OF THE PERCEPTION OF VOICELESS STOPS AND SPIRANTS AS A FUNCTION OF 462 JPRS-6543 P. 36
460 MINE THE PHONETIC MEMBERSHIP OF AN INDIVIDUAL VOWEL SOUND. /OF STATISTICAL METHODS TO DETER 460 JPRS-6543 P. 21
542 SOME PROBLEMS IN CODING THE VOWEL SOUNDS OF SPEECH. 542 JPRS-8929 P. 6
461 TS OF THE CHARACTERISTIC UTTERANCE OF RUSSIAN VOWELS. /CS ON THE TIME DISTRIBUTION OF SEGMEN 461 JPRS-6543 P. 31
699 EXT. ON ANALYSIS AND A POSSIBLE WAY OF SIMPLIFYING STRUCTURE OF A LANGUAGE T 699 JPRS-13173 P. 325
247 ACHINE LANGUAGE AND THE PLANE OF CONTENT (ON WAYS OF CREATING A SELF-TEACHING MACHINE TRANSL 247 JPRS-893 P. 44
609 POSITION OF ALGORITHMS FOR THE TRANSLATION OF WHOLE NUMBER DESIGNATIONS FROM 1 TO 999999.COM 609 JPRS-10777 P. 1
130 METHODS OF BREAKING DOWN A SYNTACTIC WHOLE. 130 JPRS-241 P. 26
477 PHONATION OF THE WORD AND ITS SEMANTICS. 477 JPRS-6588 P. 65
617 ONE METHOD FOR DESCRIBING WORD COMBINATIONS OF STANDARDIZED RUSSIAN. 617 JPRS-10814 P. 1
667 AUTOMATIC SYNTA/ TWO OPERATORS FOR PROCESSING WORD COMBINATIONS WITH ' STRONG GOVERNMENT ' (FOR 667 JPRS-12441
265 NGUAGE INTO OUTPUT LANGUAGE. WORD FORMATION IN CONVERSION OF INTERMEDIARY LA 265 JPRS-893 P. 82
695 ON WORD FORMATIONS IN MACHINE TRANSLATION. 695 JPRS-13173 P. 261
772 N SENTENCES. WORD ORDER IN INDEPENDENT SYNTHESIS OF RUSSIA 772 JPRS-13761 P. 84
451 ON THE THEORY OF WORD SUBCLASSES. 451 JPRS-6505 P. 14
697 ECH IN ANALYZING ENGLISH TEXT. WORD TREATMENT WITH HOMONYMY OF PARTS OF SPE 697 JPRS-13173 P. 305
482 THE IDEA AND THE WORDS. 482 JPRS-6678
243 E PLACE OF INFORMATION-CARRYING ELEMENTS IN A WORK. TH 243 JPRS-893 P. 36
369 IN MATHEMATICAL LITERATURE. WORD-FORMING SUFFIXES OF THE ARMENIAN LANGUAGE 369 JPRS-3599 P. 39
401 ESTABLISHMENT OF DERIVATIVE RELATIONS BETWEEN WORDS (AN EXPERIMENT IN TRANSFORMATION ANALYSI 401 JPRS-6094 P. 1
748 SYNTACTICAL INDICATORS FOR WORDS AND SYNTACTICAL ANALYSIS OF CLAUSES. 748 JPRS-13543 P. 315
657 SYNTHESIS OF FORMS OF RUSSIAN WORDS DURING MACHINE TRANSLATION INTO RUSSIAN. 657 JPRS-12047
718 THE CODING OF WORDS FOR AN ALGORITHM OF SYNTACTIC ANALYSIS. 718 JPRS-13321
541 PROCESS OF DISTRIBUTION OF LETTERS IN WORDS FOR GEORGIAN. 541 JPRS-8929 P. 5
287 G A GERMAN-RUSSIAN DICTIONARY OF POLYSEMANTIC WORDS FOR MACHINE TRANSLATION. /LES IN COMPILIN 287 JPRS-925 P. 72
200 METHOD OF SELECTING THE REQUIRED WORDS FROM THE DICTIONARY. 200 JPRS-487 P. 28
753 ANGUAGE SYNTHESIS. AN ALGORITHM FOR ORDERING WORDS IN A SENTENCE IN INDEPENDENT RUSSIAN L 753 JPRS-13543 P. 387
756 NESE TO RUSSIAN. AN ANALYSIS OF AUXILIARY WORDS IN BINARY MACHINE TRANSLATION FROM CHI 756 JPRS-13543 P. 436
694 FORM-GENERATING IN SYNTHESIS OF RUSSIAN WORDS. 694 JPRS-13173 P. 231
124 TOR IN DETERMINING THE STYLISTIC FUNCTIONS OF WORDS. THE SIGNIFICANCE OF FREQUENCY AS A FAC 124 JPRS-241 P. 20
338 . BIBLIOGRAPHIC INFORMATION WORK- AN IMPORTANT STAGE IN SCIENTIFIC RESEARCH 338 JPRS-3433 P. 9
335 O THEIR SOLUTIONS. PROBLEMS OF WORK-ORDER IN RUSSIAN-CHINESE MACHINE TRANSLATION AN 335 JPRS-3356
548 PRACTICAL WORKS IN STATISTICAL LINGUISTICS. 548 JPRS-8938 P. 10
148 INE TRANSLATION. WORKS ON A VIETNAMESE-RUSSIAN ALGORITHM OF MACH 148 JPRS-241 P. 47
139 CAL LINGUISTICS IN ANCIENT INDIAN GRAMMATICAL WORKS. /MS AND METHODS OF CONTEMPORARY THEORETI 139 JPRS-241 P. 37
425 AUTOMATIC TRANSLATION AROUND THE WORLD. 425 JPRS-6239 P. 16
431 AUTOMATIC TRANSLATION AROUND THE WORLD. 431 JPRS-6240 P. 14
399 AUTOMATIC TRANSLATION BY THE ' YAMATO ' COMPUTER. 399 JPRS-3948
389 THE JAPANESE TRANSLATION MACHINE ' YAMATO '. 389 JPRS-3758 P. 61
377 OVIET LINGUISTIC RESEARCH DURING THE NEXT FEW YEARS. THE LONG-TERM PLAN OF S 377 JPRS-3629 P. 1
773 AN INTERESTING HYPOTHESIS OF YNGVE. 773 JPRS-13761 P. 90
495 N AND LANGUAGE STATISTICS. ENTIRE ISSUE OF YUGOSLAV JOURNAL DEVOTED TO MACHINE TRANSLATIO 495 JPRS-6732 P. 46
486 A FEW COMMENTS ON BELA ZENTAI'S ARTICLE. 486 JPRS-6680 P. 34
403 H MECHANISM. N. I. ZHINKIN DEFENDS DOCTORAL DISSERTATION ON SPEEC 403 JPRS-6094 P. 20
770 SOME SPECIFICATIONS OF THE ZIPF PROBABILITY MODEL. 770 JPRS-13761 P. 65
414 DISCUSSION OF V. A. ZVEGINTSEV'S BOOK ' SEMASIOLOGY '. 414 JPRS-6152 P. 14
501). SOME THEORETICAL POSITIONS OF V. A. ZVEGINTSEV'S BOOK SEMASIOLOGIYA (SEMASIOLOGY 501 JPRS-6938 P. 11
373 MACHINE TRANSLATION AND RELATED DISCIPLINES, 1957-1958. BIBLIOGRAPHY OF ARTICLES ON 373 JPRS-3599 P. 55
343 E ON MATHEMATICAL LINGUISTICS IN LENINGRAD IN 1959). /THE USSR (EXPERIENCE AT THE CONFERENC 343 JPRS-3502 P. 4
353 SR. SPRING 1959 ACTIVITIES OF ASSOCIATION FOR MT IN THE US 353 JPRS-3597 P. 2

354 TICS. JANUARY 1959 PLENUM OF THE COMMITTEE ON APPLIED LINGUIS 354 JPRS-3597 P. 3
774 GUAGE RESEARCH UNIT, CAMBRIDGE, ENGLAND, JUNE 1959. /HINE TRANSLATION BY THE CAMBRIDGE LAN 774 JPRS-13761 P. 102
203 SAY MACHINE TRANSLATORS TO BE COMMON THING BY 1960. SOVIETS 203 JPRS-487 P. 33
583 MARC BLOCH ASSOCIATION) DURING FIRST QUARTER 1960. REPORT ON THE WORK OF G.E.D.S.H. (583 JPRS-10380 P. 6
572 ARC BLOCH ASSOCIATION) DURING SECOND QUARTER 1960. REPORT ON THE WORK OF G.E.D.S.H. (M 572 JPRS-10361 P. 2
187 Y (USSR). (REPORTS TO THE SYMPOSIUM AT THE 8TH MENDELEYEV CONGRESS ON GENERAL AND APPLIED CHEMIS 187 JPRS-331
609 LATION OF WHOLE NUMBER DESIGNATIONS FROM 1 TO 999999.COMPOSITION OF ALGORITHMS FOR THE TRANS 609 JPRS-10777 P. 1

AUTHOR INDEX

Agrayev, V. A.: 241 p.45; 893 p.90.
Akhmanova, O. S.: 6094 p.20.
Aleksandrov, P. S.: 6938 p.11.
Andreyev, N. D.: 68 p.58; 241 p.1,45,46,47; 893 p.12,34,52,73; 991 p.18; 2150 p.26,61,91,154,171; 6507 p.1; 6732 p.46; 8026 p.1; 13172; 13194.
Artemov, V. A.: 241 p.17; 6543 p.67.
Babintsev, A. A.: 241 p.48; 2150 p.161; 3758 p.61.
Babitskiy, K. I.: 893 p.28; 13543 p.387.
Bad', L.: 621 p.10.
Bagrinovskaya, G. P.: 241 p.50; 893 p.1; 13790 p.12.
Balaban, M. A.: 893 p.96.
Bardizh, V. V.: 12133.
Barkhudarov, L. S.: 319 p.1; 893 p.76.
Batova, D. A.: 241 p.47; 2150 p.154.
Beletskiy, M. I.: 893 p.35.
Belevitch, V.: 8938 p.23.
Belokrinitskaya, S. S.: 241 p.50; 893 p.68; 925 p.72; 3629 p.11; 13543 p.3,246,338.
Belonogov, G. G.: 241 p.62; 6732 p.23.
Belopol'skaya, A. R.: 893 p.78; 8966; 10576 p.22.
Bel'skaya, I. K.: 241 p.1,51; 925 p.1,36; 992 p.1.
Belyakin, N. V.: 12050.
Belykh, B. M.: 10808 p.1.
Berkov, V. P.: 241 p.54; 893 p.66,69,73,74; 2150 p.68.
Bokarev, Ye. A.: 241 p.5.
Borodin, V. V.: 893 p.90.
Borshchev, V. B.: 8372 p.1; 11483 p.63.
Braffort, P.: 8938 p.6,18,50; 10721 p.14.
Bratchikov, I. L.: 241 p.56; 893 p.36,91,96; 2150 p.41; 10576 p.1,12.
Braverman, E. M.: 13694.
Bykova, L. N.: 13543 p.267.
Camion, P.: 10380 p.2.
Ceccato, S.: 8938 p.15.
Chekova, G. V.: 241 p.80.
Cherkasova, M. P.: 2150 p.68.
Chikobava, Arn: 6236 p.12.
Chikoidze, G. B.: 893 p.32; 3599 p.33; 8313; 13761 p.74.
Chistovich, L. A.: 6543 p.21; 13790 p.24.
Chung T'sui-hao: 8591.

Dameniya, M. Ye: 8929 p.1.
DeGrolier, E.: 8938 p.4.
Demidovich, N. B.: 893 p.98.
Derkach, M. F.: 6543 p.31,36.
Detant, M.: 8938 p.37.
Dobrushin, R. L.: 241 p.6,21; 893 p.102; 3796 p.12.
Dobrushina, U. I.: 8372 p.6; 10597 p.21.
Dolgopol'skiy, A. B.: 241 p.22; 893 p.99.
Dreyzin, F.: 13543 p.355,366.
Dzhaparidze, D.: 893 p.63.
Eliashivili, A. I.: 8929 p.4.
El'kind, L. A.: 10721 p.1.
Fal'kovich, M. M.: 6588 p.38.
Fatkin, L. V.: 15754.
Fayn, V. S.: 3570.
Finn, V. K.: 241 p.40; 863; 893 p.84; 991 p.1; 11483 p.42,63.
Fitialov, S. Ya.: 241 p.56; 893 p.34,36,42,52,76; 2150 p.41; 10576 p.12,50; 13197.
Frolova, O. B.: 241 p.79; 2150 p.79.
Frumkina, R. M.: 241 p.42; 893 p.20,27; 3599 p.16; 6494 p.1; 6732 p.32.
Gachechiladze, T. G.: 893 p.32; 8929 p.4,5.
Gardin, J. C.: 8938 p.33; 10361 p.2; 10380 p.6.
Garmash, V. A.: 3598 p.11,31; 6507 p.11; 6633 p.1.
Gavrilova, G. L.: 241 p.50.
Gentilhomme, Y.: 6239 p.10.
Gilyarevsky, R. S.: 12957.
Gladkiy, A. V.: 13254.
Glebskiy, Yu. V.: 12048.
Glushkov, V. M.: 11911; 14624.
Gol'dgamer, B. I.: 6633 p.7.
Golovanov, V. P.: 2150 p.61.
Golubkov, Yu. A.: 11985.
Gorelov, V.: 16292.
Gornung, B. V.: 6236 p.36; 6732 p.1.
Gougenheim, Georges: 6240 p.1.
Grigoryan, V. M.: 241 p.20; 893 p.78.
Grigor'yev, V. I.: 241 p.19,62; 3300 p.11; 6732 p.23,42.
Grishchenko, N. M.: 13514 p.330.
Gurov, N. V.: 893 p.66,74.
Gutenmakher, L. I.: 331; 662 p.7; 8950.
Hoare, Ch. A.: 13790 p.49.
Hsu Ko-chang: 992 p.10.

Ibragimov, I. A.: 893 p.91.
Ihm, P.: 10367 p.8; 10721 p.14.
Iijima, Taizo: 6135 p.1,21,49.
Iliya, L. I.: 241 p.26.
Ioffe, S. Kh.: 893 p.73,74.
Iordanskaya, L. N.: 12441; 13514 p.313.
Iung, J.: 8938 p.46.
Ivanenko, L. N.: 893 p.101.
Ivanov, V. V.: 241 p.6,24,25; 319 p.21; 893 p.3; 2150 p.6; 6543 p.57; 8026 p.1; 10721 p.31; 13173 p.1,36; 13439; 13543 p.57,448,481; 13761 p.116.
Ivanova, L. I.: 2150 p.61.
Janszky, Lajos: 6680 p.34.
Kakauridze, A. G.: 8929 p.6.
Kaluzhnin, L. A.: 893 p.83; 10721 p.31.
Karachan, N. B.: 2150 p.99.
Katenina, T. Ye.: 241 p.66; 2150 p.149.
Keldysh, M. V.: 355.
Khabarov, I. A.: 6347 p.1.
Kholodovich, A. A.: 6505 p.14.
Kirilov, N. Ye.: 15754.
Kita, J.: 3948.
Knorozov, Yu. V. 14318 p.1.
Kogan, Kh. M.: 13253.
Kolmogorov, A. N.: 13790 p.1.
Kolshanskiy, G. V.: 241 p.27; 319 p.1; 6347 p.26; 13761 p.57.
Komandrovskiy, V. G.: 13543 p.514.
Komissarova, K. V.: 241 p.67.
Kono, Ryuichi: 6968.
Kormushin, I. V.: 893 p.73.
Korolev, L. N.: 487 p.28; 3797; 11985.
Kosarev, Yu. G.: 10508 p.1,6,10; 10509.
Kotov, R. G.: 241 p.30; 6732 p.23.
Kovalevskiy, V. A.: 16343.
Kovrigin, A. B.: 893 p.78; 8966; 10576 p.22.
Kramsky, Jiri: 3502 p.40.
Kravchenko, N. D.: 8372 p.16.
Kravchuk, I. S.: 13761 p.84.
Krupatkin, Ya. B.: 13761 p.84.
Kulagina, O. S.: 68 p.9; 241 p.8,31,67,68; 621 p.1; 646 p.1; 893 p.1,33; 1145 p.18,27; 3599 p.5; 3758 p.1; 6492 p.1; 6494 p.14; 8026 p.27; 10721 p.31; 12046; 13790 p.12.

Kunina, Ya.: 621 p.10.
Kurbakov, K. I.: 15839 p.20.
Kurihara, Toshihiko: 6968.
Kuznetsov, A. V.: 863; 893 p.87; 13173 p.52; 13761 p.1; 13790 p.5.
Kuznetsov, P. S.: 68 p.1; 241 p.7.
Kyazumova, S. A.: 893 p.78.
Lakhuti, D. G.: 241 p.40; 863; 893 p.86; 991 p.1; 8479 p.1; 11483 p.150,157.
Landa, L.: 17184 p.29.
Langleben, M. M.: 241 p.68,69; 893 p.86; 13173 p.99,203,305,314.
Larin, B. A.: 6152 p.1.
Larisse, J.: 8938 p.10,18.
Lavrent'yeva, G. A.: 13055.
Lazarev, V. G.: 14195.
Lebedev, A. V.: 11985.
Lebedev, D. S.: 3598 p.23,31.
Lecerf, Y.: 8938 p.18,27,37,39; 10367 p.4,8,13,62.
Lekomtsev, Yu. K.: 893 p.27; 3758 p.23; 3796 p.1; 6543 p.120.
Lentin, Andre: 6240 p.8.
Leont'yev, A. A.: 6152 p.7.
Leont'yeva, N. N.: 241 p.70; 3758 p.52; 13543 p.19.
Leroy, A.: 8938 p.2,11,18,29,37,48; 10361 p.55; 10367 p.1,4,62.
Leykina, N. M.: 893 p.71,76; 2150 p.166; 10777 p.11; 10814 p.32; 13134.
Liu Yung-ch'uan: 729; 3356.
Lomtev, T. P.: 6347 p.16.
Lo Wen-hua: 8591.
Luriya, A. R.: 241 p.19.
Lyapunov, A. A.: 68 p.1; 241 p.8; 355; 379; 893 p.1; 13790 p.12.
Lyubimsky, E. Z.: 6729; 11700.
Makmudov, Yu. A.: 705.
Marchvelani, A. P.: 3599 p.33.
Markov, A. A.: 11088 p.6.
Martem'yanov, Yu. S.: 893 p.49; 13321; 13543 p.19,315.
Martynyuk, V. V.: 11844 p.1; 13514 p.73.
Matveyenko, V. A.: 13514 p.303.
Med'vedeva, S. N.: 2150 p.99.
Meile, Pierre: 6239 p.6.
Mel'chuk, I. A.: 68 p.9,68; 241 p.11; 319 p.25; 646 p.28; 662 p.11; 893 p.1,60,63; 3502 p.16; 3599 p.43; 3758 p.66; 6543 p.86,104; 6732 p.11; 8026 p.1,15; 13135; 13444; 13514 p.129; 13543 p.103.

Mel'nikov, G. P.: 893 p.44,91.
Meokumyan, M.: 3599 p.39.
Meshkovskiy, K. A.: 3598 p.1.
Mikami, Koichi: 6968.
Mikhaylov, A.: 8865.
Mishchenko, G. L.: 8479 p.23.
Mitani, Naomasa: 6968.
Moloshnaya, T. N.: 68 p.36,48; 241 p.71; 646 p.19; 893 p.1,63; 6492 p.41; 6543 p.86; 8026 p.40; 12049; 13195; 13543 p.338; 13790 p.12.
Morozov, Yu. I.: 13514 p.107.
Mukhin, I. S.: 379.
Muratov, R. S.: 241 p.72.
Nagorniy, N. M.: 10865.
Nikitina, S. Ye.: 13790 p.54.
Nikolayeva, T. M.: 241 p.73; 387; 487 p.21; 893 p.68,81; 925 p.25; 3597 p.1,2; 3599 p.29; 3629 p.11; 3796 p.32; 6094 p.26; 6505 p.1; 8026 p.56; 11305; 12047; 12049; 13256; 13543 p.3,301,376; 13761 p.28.
Nikonov, V. A.: 3758 p.31.
Novak, P.: 893 p.8.
Nurkhanov, S.: 6505 p.4.
Ogloblin, A. K.: 893 p.73; 2150 p.61.
Ohno, Yoshiro: 6968.
Paducheva, Ye. V.: 241 p.58,69,75; 893 p.21,90; 6543 p.92; 6588 p.1; 10429; 10597 p.1; 13173 p.52,120,151,213,281,305; 13761 p.1; 13790 p.5.
Palek, Bohumil: 3502 p.4.
Panfilov, V. S.: 241 p.47; 2150 p.154.
Panov, D. Yu.: 379; 487 p.1; 3532; 3797.
Pantyukhina, M. Ye.: 8479 p.77.
Pappe, I. Ya. 8479 p.9.
Parshin, V. V.: 241 p.76; 925 p.64; 13543 p.231.
Penfilov, V. S.: (See Panfilov, V. S.)
Pereverzev, V. S.: 6633 p.1.
Petrova, L. T.: 11701.
Petrova, V. M.: 2150 p.154.
Pevzner, B. R.: 10597 p.21; 13057.
Piotrovskiy, R. G.: 893 p.36; 6543 p.77.
Piyl'. Ye. I.: 14195.
Podlovchenko, R. I.: 13514 p.1.
Polykovskiy, A. M.: 6997 p.6.
Popovich, D.: 6732 p.48.

Poyen, J.: 8938 p.45.
Protasov, V.: 487 p.33.
Purto, V. A.: 68 p.36; 893 p.97; 13196.
Rashitov, R.: 13543 p.355.
Razumovskiy, S. N.: 11088 p.1.
Reformatskiy, A. A.: 68 p.1; 241 p.33; 6588 p.45.
Revzin, I. I.: 68 p.36; 241 p.13,15,31; 893 p.21,24; 991 p.1; 3731 p.9; 6094 p.13; 6543 p.43; 6938 p.1; 10576 p.42; 10808 p.7; 13761 p.90.
Reznikov, L. O.: 6678.
Richter, G. I.: 8994.
Rikko, N. N.: 893 p.101.
Rokhlin, F. Z.: 8372 p.1.
Rozentsveig, V. Yu.: 68 p.36; 241 p.15,34; 893 p.1.
Ruvinschii, J.: 10367 p.38.
Rybakova, M. V.: 13254.
Sabel'nikov, I.: 16292.
Safronov, M. V.: 13198.
Saparina, Ye.: 17184 p.1.
Schutzenberger, M.: 8938 p.7.
Segal, D. M.: 13761 p.65,118.
Semenishchev, Yu. P.: 2150 p.161.
Sevak, G. G.: 893 p.23.
Seyfer, A. L.: 8479 p.69; 11483 p.126,134.
Sgall, Petr: 893 p.8; 3502 p.1,23.
Sharol', L.: 3731 p.1.
Shaumyan, S. K.: 893 p.37; 6236 p.29; 6506; 14252.
Shed'ko, T. I.: 13254.
Shelimova, I. N.: 241 p.58,80; 893 p.75; 6543 p.86; 13173 p.155,339.
Shevoroshkin, V.: 241 p.44.
Shikhanovich, Yu. A.: 11483 p.154.
Shirokov, O. S.: 8132 p.1.
Shmelev, D. N.: 6588 p.14.
Shteyn, V. S.: 8479 p.69; 11483 p.126.
Shumilina, A. L.: 241 p.58,59,82; 893 p.86; 6543 p.86; 10429; 13173 p.99,120,192,228,325,339.
Shumyan, S. K.: 241 p.43.
Shura-bura, M. R.: 355; 14164.
Shurygin, V. A.: 13514 p.45.
Skorokhod'ko, E. F.: 13056.
Smirnitskiy, A. I.: 6588 p.65.
Smirnov, A. F.: 893 p.73,74; 15839 p.1.

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Sobel'man, V. I.: 11844 p.15; 14164.
Sobolev, S.: 6997 p.1.
Sobolev, S. L.: 14318 p.15.
Sofronov, M. V.: 319 p.10.
Sokolyanskiy, I. A.: 241 p.35.
Steblin-Kamenskii, M. I.: 241 p.13; 2150 p.2.
Stetsyura, G. G.: 11483 p.171.
Stogniy, A. A.: 11699.
Stokolova, N. A.: 893 p.86; 8479 p.1,55.
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Stratilatova, M. B.: 10576 p.22.
Strelkova, V. I.: 2150 p.79.
Strelkowskii, G. M.: 241 p.36.
Styazhkin, N. I.: 8372 p.16; 11483 p.17; 13057.
Superanskaya, A. V.: 241 p.77.
Tabory, R.: 6239 p.10.
Tadenuma, R.: 3948.
Tamachi, Tsuneo: 6968.
Tamarashvili, L. R.: 3599 p.33.
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Te Nuyl, Th. W.: 8938 p.43.
Timofeyeva, O. A.: 241 p.78; 893 p.73; 2150 p.91.
Toporov, V. N.: 241 p.37; 893 p.9; 3300 p.1.
Trakhtenbrot, B. A.: 11779.
Tsemmel', G. I.: 1029.
Tsertsvadze, G. N.: 893 p.32; 8929 p.5.
Tseytin, G. S.: 241 p.56; 893 p.34,36,43; 2150 p.41,99;
10576 p.12,30; 10777 p.1; 10808 p.1,10; 13761 p.19.
Tsirlin, V. M.: 6633 p.1.
Tsukerman, A. M.: 11483 p.171.
Tsu-shun, Kao: 8026 p.51.
Udartseva, M. G.: 241 p.39.
Ukhanova, L. I.: 893 p.73.
Ukhanova, N. N.: 8132 p.9.
Uspenskiy, B. A.: 3599 p.50.
Uspenskiy, V. A.: 1145 p.1; 3599 p.50; 6445 p.1; 8026 p.53;
11483 p.2.
Ustinov, V. A.: 10508 p.1,6,10.
Vakulovskaya, G. V.: 1145 p.18; 12046.
Varshavskiy, L. A.: 6543 p.2.
Vasil'yev, N.: 14682.

Vasilevskiy, A. L.: 10777 p.38.
Vasil'yev-Chebotarev, A.: 3225 p.10.
Vavilova, G. N.: 241 p.70.
Veltistov, Ye.: 15787.
Vinogradova, O. S.: 241 p.19.
Vinogradova, V. N.: 241 p.56.
Vleduts, G. E.: 331; 893 p.84; 3613; 8372 p.36; 11483 p.42,63.
Volchek, G. A.: 13543 p.3.
Volkov, A. G.: 6347 p.1.
Volnina, I. A.: 3597 p.8.
Volotskaya, Z. M.: 241 p.58,58,59; 893 p.82; 6094 p.1: 6543 p.86; 10814 p.1; 13173 p.228,231,261,325,339.
Vorob'yev, G. G.: 14468.
Voronin, V. A.: 241 p.60; 925 p.83; 1133; 13543 p.86,165.
Voynov, V. K.: 13761 p.84.
Voyshvillo, Ye. K.: 863.
Vyazalov, L. Kh.: 13514 p.107.
Yaglom, A. M.: 3796 p.12.
Yaglom, I. M.: 893 p.102; 3796 p.12.
Yakishun, B. V. 10597 p.21.
Yanenko, N. N.: 13514 p.45.
Yang Chin-yin: 8591.
Yanov, Yu. I.: 6868.
Yao Chao-wei: 13478.
Yefimov, M. B.: 241 p.63; 893 p.68; 925 p.93; 1130; 3629 p.11; 13543 p.3,413,503.
Yeliseyev, V. K.: 16343.
Yermolayeva, H. M.: 11483 p.154.
Yermolayeva, L. M.: 13173 p.52.
Yermolayeva, N. M.: 893 p.90; 13761 p.1; 13790 p.5.
Yevreinov, E. V.: 10508 p.1,6,10; 10509.
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Zentai, Bela: 6680 p.2,28.
Zheleznov, N. A.: 6543 p.7.
Zherebin, V. M.: 13543 p.209,217.
Zhirkov, L. I.: 68 p.30.
Zholkovskiy, A. K.: 13543 p.19; 13761 p.102.
Zimnyaya, I. A.: 241 p.17.
Zinder, L. R.: 991 p.18; 6445 p.7,15; 6507 p.1; 6543 p.54.
Zinov'yev, A. A.: 241 p.23; 3731 p.9.
Zolotarev, V. M.: 893 p.25,27.
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Conference on Problems of Scientific Research Work in Formal Logic, Moscow State University, 27 October-3 November 1958 863

Conference for the Processing of Information, Machine Translation, and Automatic Reading of Texts, Moscow, 21-30 January 1961 . . . . . 14318 p.1

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Conference of Young Specialists of the ITMiVT, 1957 . . . . . 387; 1130

First All-Union Conference on Machine Translation, 15-21 May 1958; sponsored by the First Moscow State Pedagogical Institute of Foreign Languages

- abstracts . . . . . 241 (all items)
- program, documents, recommendations, participating institutions. 1006
- selected papers . . . . . 925 (all items)
- summary 487 p.21

Intervuz Scientific Conference on Applied Linguistics, Chernovtsy State University, 22-28 September 1960. . . . . 8132 p.1; 13761 p.118

Leningrad All-University Seminar on Machine Translation, 28 November-3 December 1957
report on. 1145 p.44

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program. 662 p.1
summaries, papers. . . . . 68 p.68; 1145 p.1; 2150 p.6; 3502 p.4; 11483 p.2,150,154,171.

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Chinese People's Republic
Academy of Sciences
Institute of Computer Techniques 1131
Institute of Computing Equipment 6094 p.28
Institute of Linguistics 487 p.21; 6094 p.28; 8026 p.51
Institute of Scientific and Technical Information. 8026 p.51
Peking Institute of Foreign Languages 8026 p.51

Czechoslovakia
Charles University, Prague
Faculty of Philosophy. 6239 p.16
Institute of Radio Engineering and Electronics 3502 p.40
Institute for Research on Electronic Machines, Prague. 6239 p.16

France
ATALA Association de Traduction Automatique et de Linguistique Appliquée (Automatic Translation and Applied Linguistics Association)
bulletin. 6239 p.1
constitution. 3474
program, activities 6239 p.19; 6240 p.17
2 June 1960 meeting 10367 p.13
G.E.D.S.H. Groupe d'Études Documentaires pour les Sciences Humanies (Group for Documentary Study of the Human Sciences). . . 10361 p.2,55; 10380 p.6
GRISA (Group for Research on Automatic Scientific Information)
organization, personnel . . 10367 p.1
National Center for Scientific Research
Center for Studies of Automatic Translation. 6239 p.16

Great Britain
Cambridge Language Research Unit 13761 p.102

Japan
Electrical Communications Society 6135 p.1,21
Electrical Engineering Laboratory 3758 p.61
Electrical Experiment Laboratory. 6135 p.49
Electrical Testing Laboratory 3948
Mitsubishi Electronic Works 6968

Netherlands
Shell International Research Group, The Hague . 8938 p.43

Soviet Union
Academy of Sciences Armenian SSR
Computing Center 662 p.11
Academy of Sciences Georgian SSR
Institute of Electronics, Automatics,
and Telemechanics. 662 p.11; 6094 p.29;
15787
Academy of Sciences Moldavian SSR 3597 p.10
Academy of Sciences Ukrainian SSR
Computing Center 662 p.11; 6507 p.11;
13056; 13514 p.330
Institute of Cybernetics 15787
Academy of Sciences USSR
All-Union Institute of Scientific and
Technical Information (VINITI) 487 p.1; 3433 p.1;
8479 p.77; 8865
Analog Computer Laboratory. 8372 p.16
Laboratory of Electromodeling 68 p.68; 331;
487 p.21; 621 p.10;
705; 893 p.97;
1145 p.1; 2150 p.6;
3502 p.4,16; 8950
Mechanization Laboratory. 13055; 15429
Commission on Acoustics, Speech Section. . 6094 p.13; 6445 p.15;
13543 p.481
Committee for Applied Linguistics
formation of. 3502 p.4
first meeting, 24 January
1958. . . . . 319 p.21; 487 p.25
conference report
26-27 January 1959. . . . 3597 p.3; 3599 p.53
membership. 319 p.21
research activities 319 p.21; 3597 p.1,3

Soviet Union (continued)
Academy of Sciences USSR (continued)
Cybernetics Institute. 14682; 16343
Department of Literature and Languages
Committee on General Linguistics. . . 6236 p.1,12,29,36
Vocabulary Commission
Sixth Plenary Session,
19-21 October 1960. . . . 8132 p.9
Institute of Automation and Remote
Control. 6507 p.11; 15787
Institute of Chinese Studies 6445 p.18; 6732 p.42
Institute of Ethnography 6445 p.18; 6732 p.42
Institute of Far Eastern Studies 6445 p.18
Institute of Linguistics 487 p.21; 662 p.11
methods seminar,
11 April 1958 . . . . . 487 p.25
Sector of Structural and Applied
Linguistics 12441; 13444
Institute of Oriental Sciences 6732 p.42
Institute of Precision Mechanics and
Computer Engineering 241 p.1; 355; 379;
487 p.1,21,31;
621 p.10; 925 (all
items); 3225 p.10;
3597 p.10; 6505 p.1;
12047; 12133;
13543 p.3,86,165;
13761 p.28
Institute of Slavic Studies. 6236 p.41; 6732 p.42
Laboratory for Development of Scientific
Problems of Wire Communications. 3598 p.11,23
Laboratory of Information Transmission
Systems. 3796 p.12; 6507 p.11
Mathematics Institute. 241 p.8; 355; 379;
487 p.21; 621 p.1;
646 p.19; 3502 p.16;
8026 p.27; 10509;
13195
Leningrad Division (LOMI) 11701
Russian Language Institute 6236 p.41; 6445 p.18;
8132 p.9
Scientific Council on Cybernetics. 6236 p.41; 6445 p.18;
6732 p.42
Cybernetics Machines Section. 6507 p.11
Linguistics Section 3597 p.1

Soviet Union (continued)
Academy of Sciences USSR (continued)
Siberian Branch
Institute of Mathematics. 14318 p.1,15
Computing Center 6997 p.1
Laboratory for Use of Computer Techniques in Scientific Research 10508 p.10
All-Union Institute of Transportation Construction
Section of Economic Cybernetics. 15787
All-Union State Library imeni V. I. Lenin
Central Bibliographic Reference Office . . 8372 p.6
Central Institute of Technical-Economic Scientific Information (TsITEIN). 6680 p.2
Central Technical Information Bureau (TsBTI). . 6680 p.2
First Moscow Pedagogical Institute of Foreign Languages (MGPIIYa) 487 p.21; 1006; 3597 p.8
Association for Machine Translation. . . . 487 p.32
participating institutions. 1006
publications. 3629 p.18
March-June 1958 seminar report. 3758 p.76
March-June 1959 linguistics seminar . . . 3597 p.2
1959 meetings report. . . . 8026 p.57
Laboratory of Experimental Phonetics and Speech Psychology. 241 p.17; 6094 p.13; 6445 p.1
Machine Translation Laboratory 13321
Gorky Research Institute of Physics and Technology (GIFTI). 241 p.45
Gorky University. 487 p.21
Institute of Semiotics
proposal for. 6236 p.36,41
Leningrad University
Department of Mathematical Linguistics . . 621 p.10
Experimental Laboratory of Machine Translation. 487 p.21; 621 p.10; 662 p.11; 893 p.73; 2150 p.91
Laboratory of Experimental Phonetics . . . 3597 p.10

Soviet Union (continued)
Moscow State University
Institute of Psychology imeni Lomonosov. . 6094 p.20
Philology Faculty. 487 p.32; 3597 p.10
Odessa Electrical Engineering Institute
of Communications 6507 p.11
Scientific Council on Applied Linguistics
proposal for. 6236 p.41
Society of Psychologists, Section on Allied
Problems of Psychology and Linguistics
first meeting
17 February 1959. . . . . 3597 p.8
State All-Union Design and Planning Institute
of the Ministry of Ferrous Metallurgy
Computation Center 3598 p.11
Technical Information Bureaus (BTI) 6680 p.2
Yerevan State University. 6094 p.13
Commission on Applied Linguistics and
Machine Translation. 662 p.6

Yugoslavia
Boris Kedrick Institute, Vincha 6732 p.48
Experimental Phonetics Institute, Belgrade. . . 6732 p.48

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No. 6:	12957; 13055; 13057; 13135; 13256
No. 8:	13056; 13134
No. 9:	13172; 13195; 13196
No. 10:	13194; 13197; 13198; 13254; 13321; 13439
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2 (9), pp. 1-5	3599 p.1
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, pp. 45-53	3599 p.33
, pp. 54-58	3599 p.39
, pp. 59-69	3599 p.43
, pp. 70-73	3599 p.50
, pp. 74-76	3599 p.53
, pp. 77-84	3599 p.55
No. 3 (10), pp. 3-34	3758 p.1
, pp. 35-44	3758 p.23
, pp. 45-65	3758 p.31
, pp. 66-77	3758 p.52
, pp. 78-82	3758 p.61
, pp. 83-93	3758 p.66
, pp. 94-98	3758 p.76
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, pp. 25-45	8026 p.15
, pp. 46-63	8026 p.27
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, pp. 105-108	8026 p.53
, pp. 109	8026 p.56
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, pp. 51-55	13761 p.65
, pp. 56-65	13761 p.74
, pp. 66-72	13761 p.84
, pp. 73-80	13761 p.90
, pp. 81-89	13761 p.102
, pp. 90-92	13761 p.116
, pp. 93-99	13761 p.118
No. 6, pp. 3-8	13790 p.1
, pp. 9-18	13790 p.5
, pp. 19-38	13790 p.12
, pp. 39-79	13790 p.24
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	170-173	6445 p.1
, No. 2 (March-April)	116-121	319 p.10
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	151-152	6445 p.15
	158	487 p.25
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	89-94	992 p.1
	150	3597 p.3
	150-154	3597 p.8
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	145-146	3597 p.8
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	52-59	3796 p.1
	100-110	3796 p.12
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	97-101	3629 p.11
	154	3629 p.17
	159-160	3629 p.18
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	130-131	6094 p.26
	142-145	6094 p.20
	146-149	6094 p.13
	154	6094 p.28
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	73-80	6732 p.11
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	160-164	8132	p.9
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