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TECHNICAL NOTE

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Part 1

ACTIVATION ANALYSIS: A BIBLIOGRAPHY



U.S. DEPARTMENT OF COMMERCE
National Bureau of Standards

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The Bureau comprises the Institute for Basic Standards, the Institute for Materials Research, the Institute for Applied Technology, and the Center for Radiation Research.

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¹ Headquarters and Laboratories at Gaithersburg, Maryland, unless otherwise noted; mailing address Washington, D. C. 20234.

² Located at Boulder, Colorado 80302.

³ Located at 5285 Port Royal Road, Springfield, Virginia 22151.

UNITED STATES DEPARTMENT OF COMMERCE
C. R. Smith, Secretary
NATIONAL BUREAU OF STANDARDS • A. V. Astin, Director



TECHNICAL NOTE 467

Part 1

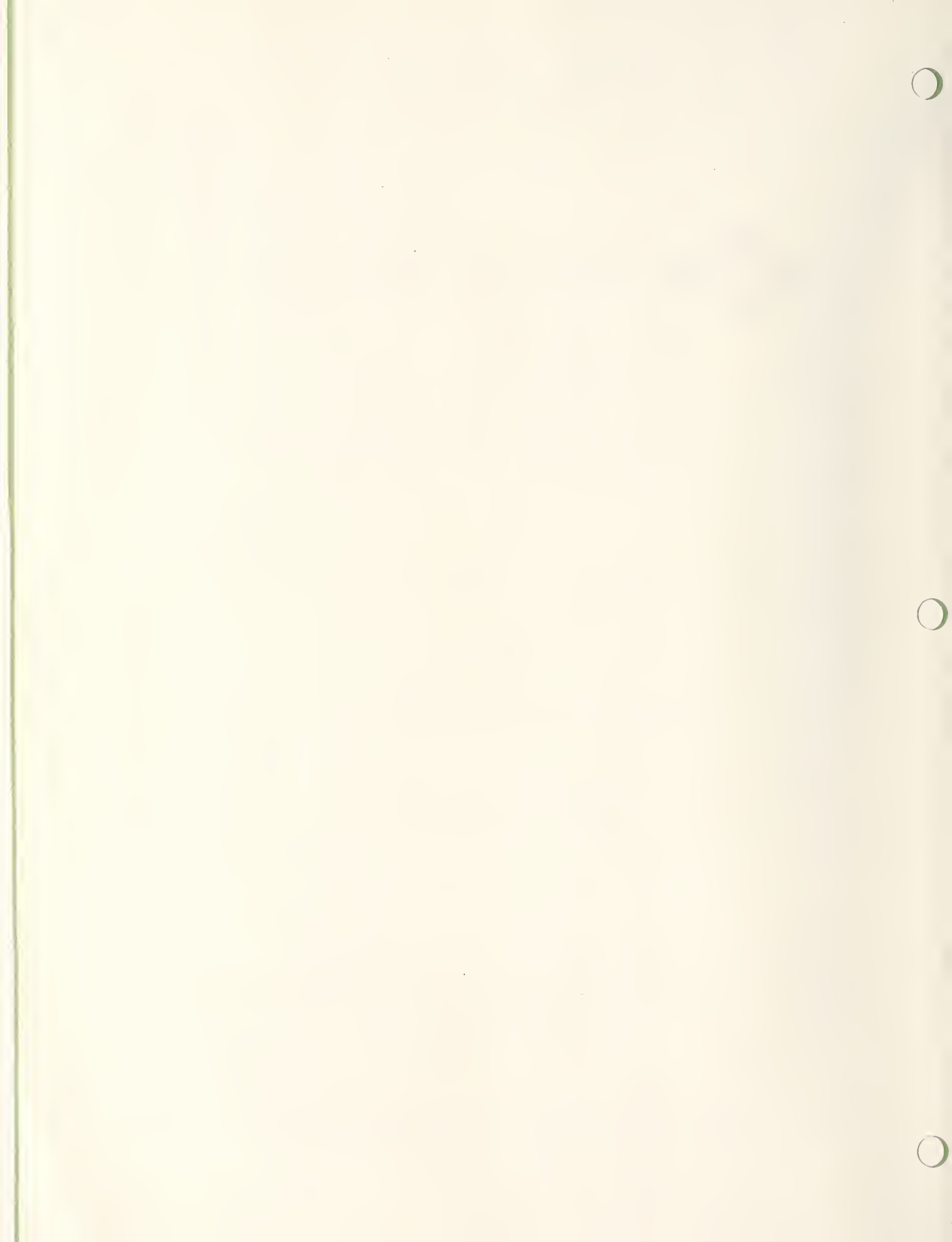
ACTIVATION ANALYSIS: A BIBLIOGRAPHY (PART 1 – ISSUED SEPTEMBER 1968)

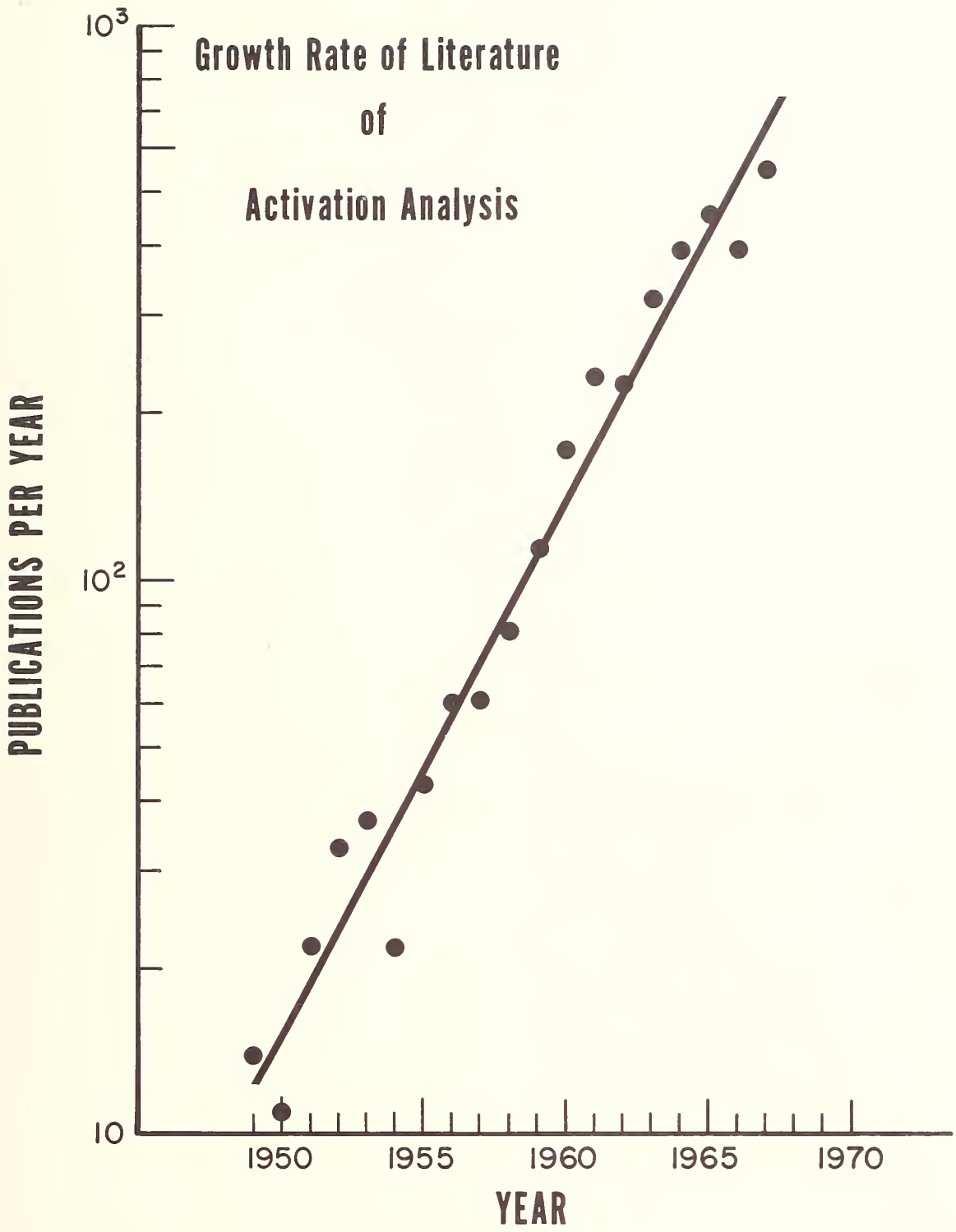
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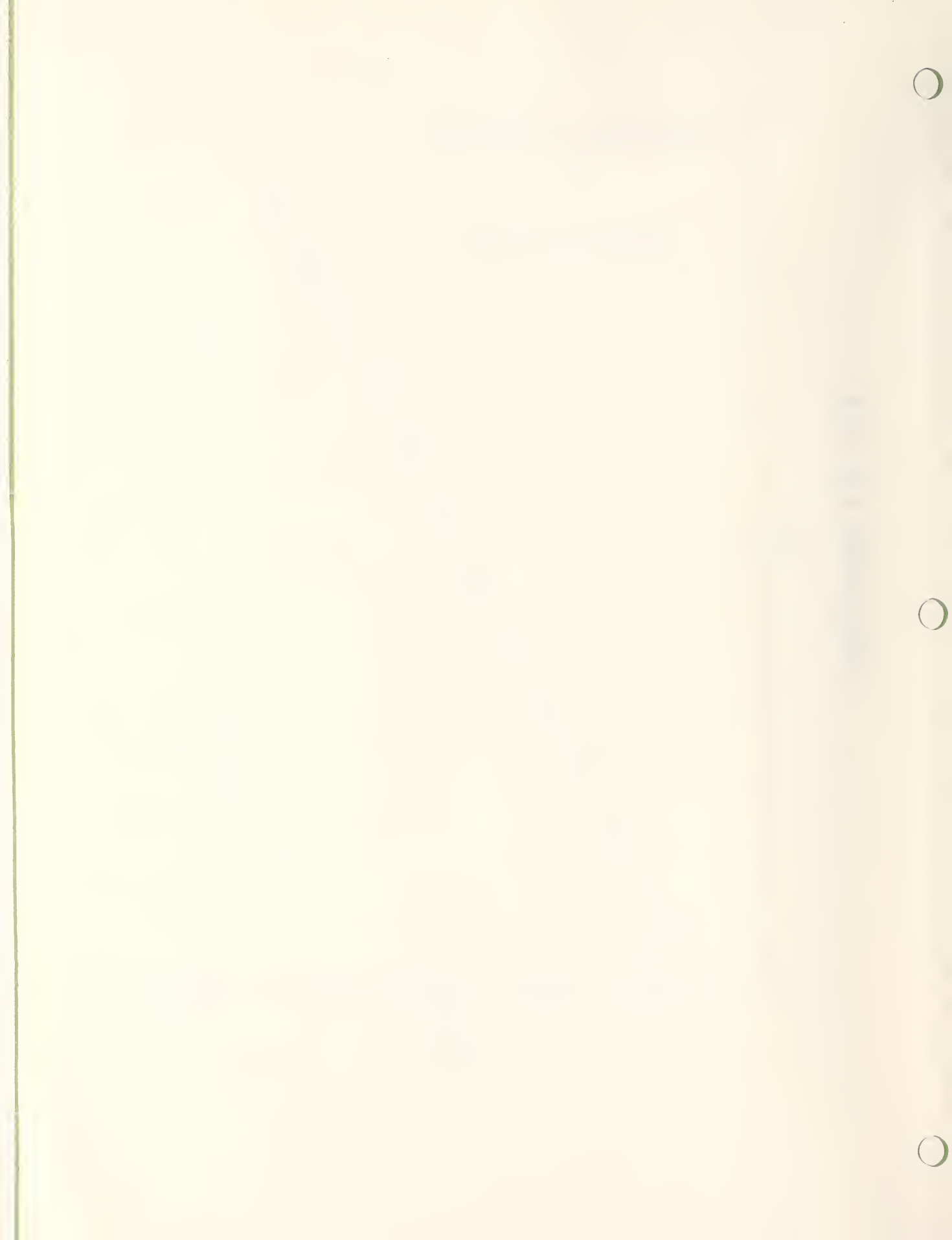
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NBS Technical Notes are designed to supplement the Bureau's regular publications program. They provide a means for making available scientific data that are of transient or limited interest. Technical Notes may be listed or referred to in the open literature.







PREFACE

Activation analysis is generally considered to have its genesis in the classic papers of Hevesy and Levi in 1936 and of Seaborg and Livingood in 1938. The first ten years of activation analysis yielded less than two dozen contributions to the literature, but the annual accretion rate of the subsequent two decades has shown an exponential growth, rising from 13 papers in 1949 to almost 600 in 1967. This represents a doubling time of slightly over three years.

This fantastic growth of the literature can be attributed not only to the acceptance of activation analysis as a useful method for trace element analysis and the increasing availability of nuclear reactors, but also to the addition of several additional nuclear projectiles to the arsenal of activation analysis and the development of sophisticated radiochemical separation methods and radiation detection equipment.

The practitioner of activation analysis has a literature rapidly approaching 4000 items, to which several hundred items are being added annually. Unless he is to spend more time in the library than in the laboratory, methods must be found to keep him apprised of those aspects of activation analysis in which he is interested or will subsequently become interested. This bibliography represents the efforts associated with one such method.

The literature file on which this bibliography is based was initiated in 1952 and until 1964 used a manual retrieval method. At this time when the amount of material stood at about 2000 items, it became apparent that computer techniques for retrieval would greatly increase the utility of the file.

For this purpose, each item in the file was coded to the three categories which are an irreducible minimum for defining an analysis--element determined, matrix analyzed, and technique used. In addition, each item was keyed as to type of publication (journal article, thesis, etc.), language of publication,

country of origin, year of publication and scope of publication.

These data are used in conjunction with an information storage and retrieval system developed by the Control Data Corporation. Interrogation of the computer may be as specific as desired. For this bibliography, a query was made for the accession number of each item in the file associated with each author, each element, each matrix, and each technique used. These lists of accession numbers are given in the appendices.

It is a pleasure to acknowledge extensive help from the many persons who contributed to this bibliography. Members of the Activation Analysis Section, past and present, who assisted with searching, keying, and preparation and who contributed many excellent suggestions for design of the system for maximum utility are D. A. Becker, B. S. Carpenter, M. R. Crambes, J. R. DeVoe, T. E. Gills, W. D. Kinard, P. D. LaFleur, L. T. McClendon, S. S. Nargolwalla, I. H. Qureshi, W. P. Reed, R. R. Ruch, D. M. Setlock, G. W. Smith, and B. A. Thompson. Special thanks are due to Mrs. B. L. Lockett of the NBS library for her capable assistance in obtaining material from outside sources, and to R. Robinson and J. Stern of the Control Data Corporation who worked with our staff to modify their system to meet our requirements.

W. Wayne Meinke, Chief
Analytical Chemistry Division

ACTIVATION ANALYSIS - A BIBLIOGRAPHY

(Part 1)

Edited by

G. J. Lutz, R. J. Boreni, R. S. Maddock and W. W. Meinke

ABSTRACT

References to activation analysis in the open literature are published from a computer readout. The first part of the two-part series contains references numbered according to their accession to the system. The second part contains an author index and three additional indices for "element determined", "matrix analyzed", and "technique used". The two parts, when used together, permit a literature search defined by the three indices. Part 1 will be updated periodically by addenda containing new references while Part 2 will be periodically revised and replaced by new pages which include cross references to the new accessions.

Key words: Activation analysis, bibliography, element determined, literature file, matrix analyzed, technique used.

1. INTRODUCTION

This bibliography is a computer printout of a "current awareness" file of references on activation analysis. The publication of this bibliography was planned so that it might be distributed initially to the attendees of the Conference "Modern Trends in Activation Analysis", being held from October 7-11, 1968 at the National Bureau of Standards in Gaithersburg, Md. The file covers the literature available to us through July 31, 1968.

2. HISTORY

The present system began in 1952 as a manual system using the notched edge, needle-sort card system. By 1963 when one of the editors, W. W. Meinke, joined the National Bureau of Standards, the system had about 1400 items. The responsibility for keeping the file up to date and at the same time exploring the possibility of computerizing the system was given to R. S. Maddock. The increase in the number of papers per year was virtually exponential (see graph on frontispiece) and for two years it was possible to do little more than locate the references. In 1965 R. J. Boreni became editor-manager of the system, and the responsibility for scanning the literature was delegated to the Activation Analysis Section of the Analytical Chemistry Division with G. J. Lutz coordinating the effort.

Because the Computer Service Section of NBS was committed to capacity and would not be in a position to explore the system for some years, a commercial computer firm, Control Data Corporation, contracted to provide a system which would meet certain requirements. These requirements included storage and retrieval of information from our station and provision of immediate turnaround or delayed or non-prime

turnaround. In addition we needed a serialized input (to match our file of hard copies), an updating capability, a flexible interrogation capability including listing chronologically and alphabetically, word-in-context searching, and a capability for including other analytical competences at some future time.

3. PROCEDURE

A system of record keeping and cross checking of input items has been set up by R. J. Boreni and is summarized below.

A. Scanning the Literature

An organized system for scanning the literature has been devised so that Nuclear Science Abstracts and Chemical Titles are systematically scanned by scientists in the Activation Analysis Section. An accession number card, containing the identical information to be stored in the computer, is made for each reference found after the reference has been checked against the existing file to prevent duplication. Abstracts, when available, are copied and made a part of this card file. A cross-referenced card is made for each author and filed alphabetically.

B. Procurement of Reprints for Inclusion in the System

Copies of papers are obtained when possible. The National Bureau of Standards Library subscribes to a large number of the journals in which the majority of activation analysis papers are published. Journals not held by the library are obtained through the inter-library loan service from various other libraries throughout the United States. Reports abstracted in Nuclear Science Abstracts are obtained from the Division of Technical Information Extension, Oak Ridge, Tennessee. A number of reprints are also received directly from scientists in all parts of the world working in the field.

C. Keying

All papers are keyed from a copy of the reprint by personnel in the Activation Analysis Section. Papers in a language other than English and which do not contain an English summary are frequently keyed from the NSA abstract or Chemical Abstracts. No formal process has, at this time, been set up for translating articles into other languages although translation assistance in a number of languages is available at NBS.

For each paper five keys are used: Key 1. Element to be determined; Key 2. Matrix analyzed; Key 3. Technique used; Key 4. Type of paper (i.e. journal article, report, thesis), language, and country where work was done; Key 5. Analytical competence (i.e. Activation Analysis for this particular bibliography). These keys are not limited so that additional subcategories may be made as needed.

D. Preparation of Material for Computer Storage

All material for computer storage is punched on paper tape. The tape itself is sent to the computer center several miles away for incorporation into the memory tape.

E. Interrogations and Readout

Interrogations are made by teletype directly to the computer center by querying the computer for the desired information. All queries are formed using the first three keys listed in 3.C above. In addition the question can be limited by choosing the proper item in keys 4 and 5. For example, the search can be limited to a certain language such as French and/or German and a thesis. This would search out only French and German language theses on the question formed from the first three keys.

Answers to the queries give the accession number, author, title of paper, and complete reference. Unless specified, this will read out in a block format just as it was inserted into the file. A special format such as was used for the printout of this bibliography is available. The printout can

also be alphabetized according to the first author or listed chronologically by year. The readout can be sent to our station by teletype on either a 2-hour, 6-hour, or a 24-hour turnaround. It can also be printed out at the computer center and sent by messenger on a 24-hour turnaround.

4. USE

Prior to publication of this bibliography, our information storage and retrieval system has had only "in house" usage. The relative ease and flexibility of systematic extraction of material has made the file an indispensable prelude to solution of problems in the Activation Analysis Section. It is also frequently used by members of the section for reviews of the state-of-the art in their fields of interest.

This particular bibliography represents the complete contents of our system as of July 31, 1968 and is organized to present an optimum amount of information to its users. It is issued in two parts because of size as well as function. Part 1 gives a complete readout of the bibliographic information in the file arranged according to accession numbers. This part will be supplemented by addenda as more items are added serially to the system, but it will not have to be revised to remain effective.

Part 2 contains an index of authors as well as indexes of "element determined", "matrix analyzed", and "technique used". Each index lists the accession number of each paper which has been keyed for a particular entry. This part is provided in loose-leaf format and will be revised and updated periodically by insert sheets which will include references to recent accessions.

Persons using this bibliography are encouraged to offer suggestions to the editors as to how this bibliography could be made more useful and also to provide copies of papers which may have been inadvertently omitted.

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