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TECHNICAL NOTE

467

Part 2 Appendices

ACTIVATION ANALYSIS: A BIBLIOGRAPHY



U.S. DEPARTMENT OF COMMERCE
National Bureau of Standards

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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.

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



TECHNICAL NOTE 467

Part 2 – Appendices

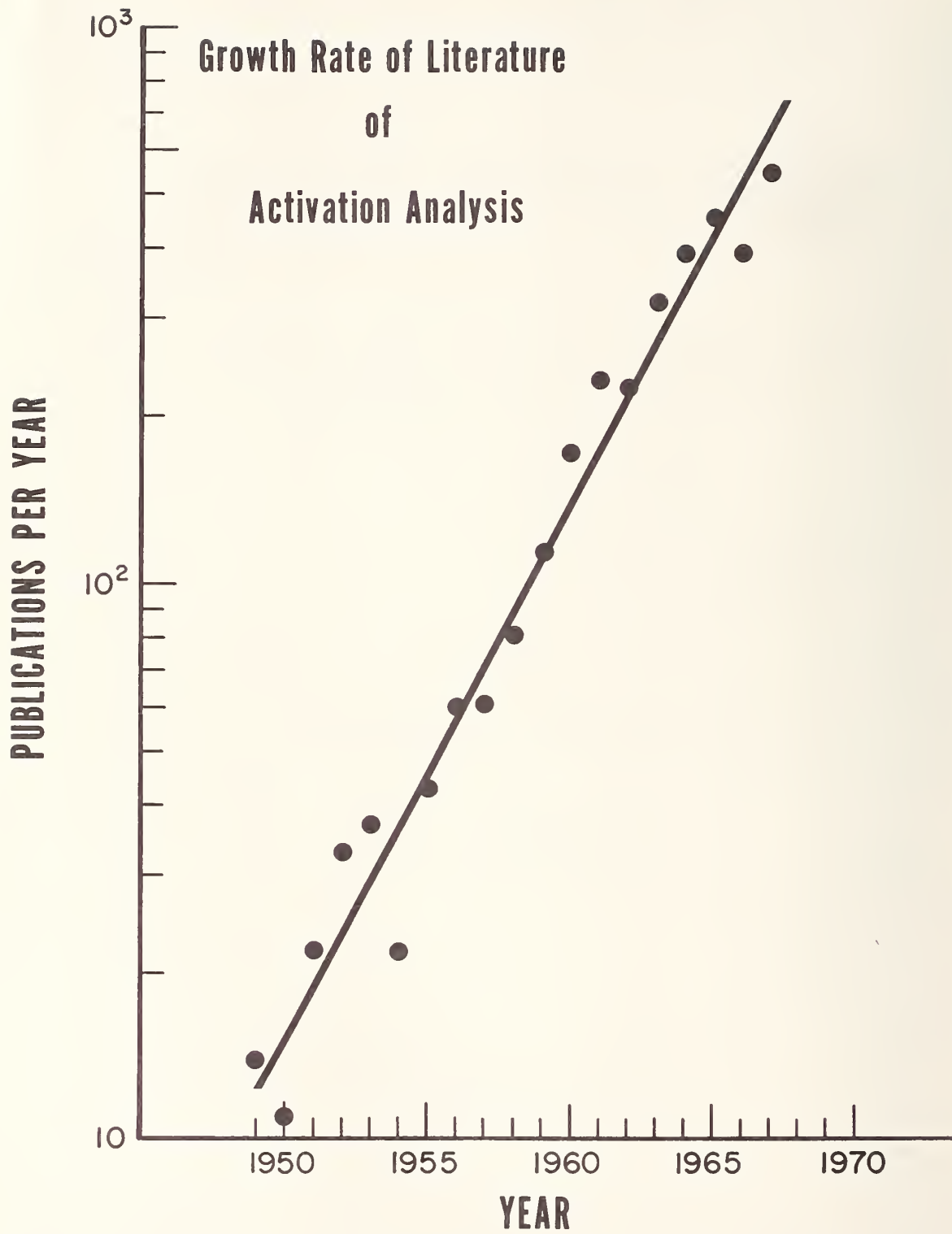
ACTIVATION ANALYSIS: A BIBLIOGRAPHY (PART 2 – ISSUED SEPTEMBER 1968)

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ACTIVATION ANALYSIS - A BIBLIOGRAPHY

(Part 2)

Edited by

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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.



APPENDIX I



ACTIVATION ANALYSIS-AUTHORS

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ABBOSOV, O.	5705 5707
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ANDERSEN, G.H.	507 1537 2121 2126 2348 3077 5979
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ANDREEV, A.V.	5321 5781
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ARWILL, T,	6055
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ASPIN, N,	550
ASPINALL, A,	5742
ATALLA, L.T,	1650 5358
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ATHAVALE, V.T,	1427 3560
ATKINS, D.H.F,	26 27
ATOMES	551
ATOMIC ENERGY FOR PEACE, BANGKOK	5972
ATOMICS	299 376 389 404
AUBOIN, G,	5595
AUBOIN, G,	1045 1046 1138 1165 1819 2557
AUBRY, J,	28
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ACTIVATION ANALYSIS-AUTHORS

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BAKER, C,A,	850 1475 3488
BAKES, J,M,	1677 1961 2526 3948
BALCIUS, J,F,	2695 3959
BALDWIN, W,F,	1843
BALL, T,K,	2509 2669
HALLAUX, C,	4254 5730
HALSENC, L,	3996
BANCIE-GRILLOT, M,	30 31 32
BANDEL, D,	1050
BANDO, S,	419 2683 3341
BANKS, T,E,	33 34
BANTA, H,E,	1294
BANVILLE, B,	1924
BARAK, A,J,	542
BARANOV, V,I,	904 1062 1393
BARBAKADZE, L,V,	3757
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BARGAINER, J,D,	1843
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BARKER, W,	2124
BARO, G,B,	802 1734 2926
BARRALL, E,M,, II	860
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BARTHOMEUF, D.	853
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BASTIAN, J.	5422
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BASTIAN, R.P.	117
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BATE, G.L.	39 40 41 42 1076
BATE, L.C.	43 291 292 625 640 641 654 763 946 973 981 1031 1060 1075 1077 1268 1350 1361 1635 1709 1713 1725 1727 1746 1796 2157 2699 2881 2931 4232 5711
BATELLE MEMORIAL INSTITUTE.	1904
BATTISTONE, G.C.	2584 2585 2637
BATTYE, C.K.	6014
BAUDIN, G.	2927
BAUMGARTNER, F.	44 1331 1529 1689 1732
BAUS, R.A.	729 1123
BAYLE, P.	5444
BEAMER, W.H.	18 22 23 635
BEAMISH, F.E.	4307 4312

ACTIVATION ANALYSIS-AUTHORS

BEARD, D.B,	45 46 49
BEARD, H.R,	6077
BEARDSLEY, D,A,	1930
BEASLEY, T,M,	2998
BECK, D,J,	418
BECK, J,S,	1078
BECKER, D,A,	2537 4224 5985
BEESON, M,H,	5936
BELIARD, L,	5765
BELKAS, E,P,	1964 4272
BELL, P,R,	2684
BELLANCA, S,C,	2792 2959
BELLER, L,S,	1079
BELOV, V,I,	2965
BELYAKOV, M,A,	855 3375
BENJAMIN, R,W,	2686 3070
BENSON, A,A,	47 975 1462 1870 3716
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BENTLEY, W,C,	492
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BERGNER, P-E, E,	2422
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BERLANDI, F, J,	1129 2511 4410 6076
BERNHARD, F,	744
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BERZIN, A, K,	1646 2965 3462
BERZINA, I, G,	5965
BESPALOV, D, F,	780 3462
BETHARD, W, F,	648 944 1384 1708 6010 6067
BETHGE, P, O,	1239
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BETTERIDGE, D,	2455
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BHATNAGAR, A, S,	2318
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ACTIVATION ANALYSIS-AUTHORS

BILDSTEIN, H,	982 1264 2601 2950 3397 4301
BILEFIELD, L.I.	522 1080 1106
BILIDIN, L.P,	784
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BLOMSTRAND, R.	1242 1342 1747
BLONDEL, A,	1503
BLOTCKY, A.J,	1041
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BOBACK, M,W,	2122
BOBLETER, O,	1527
BOBROV-EGOROV, N.N.	5317

ACTIVATION ANALYSIS-AUTHORS

BOCHIROL, L.	1663
BOCK-WERTHMANN, W.	627 711 857 1179 2513 2775 5982
BODDY, K.	6015 6047
BODNAR, J.	1005
BOGANCS, J.	3350 5931
BOGARD, A.D.	729 1123
BOGDAN, J.F.	2493
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BOISDE, G.	2726
BOIVIN, M.	5520
BONDY, C.	2924 4264 5968
BOREISHA, E.G.	4196
BORELLA, A.	1919 3082
BORG, D.	2730
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BORGHOLTHAUS, D.	36
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BOTTINO, M.L.	913
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BOUGHNER, R.T.	5261

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BOUTEN, F,	581
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BOUTEU, P,	893
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BOUZYK, J,	923
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BOWIE, S,H,U,	908
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BRANCATO, G,	2964
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BRATTER, P,	2775 4299 4300
BRAUN, H,	898
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BREWER, F.M.	360
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BRIDEN, D.W.	131 1248
BRIDGES, R.G.	543
BRIL, J.	2668
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BRISCOE, G.B.	1930
BRISCOE, W.L.	1604 5752 5769
BRITISH MEDICAL JOURNAL	5946
BROADHEAD, K.G.	500 2498 4214
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BROWNE, H.G.	1858
BROWNELL, G.L.	2695 3443 4204 5977
BROWNELL, G.M.	554 555

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BRUES, A.M,	90 725
BRUNE, D.	328 987 1089 1134 1400 1412 1766 1797 1893 1910 2604 2635 2871 3789 3808 4318 5424 5860
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BRUNFELT, A.O.	3470 3961 4192 4305 5731 5960
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BURRILL, E,A,	91 92 556 557 917 1808
BURROWS, B,A,	2972
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CANADIAN CHEMICAL PROCESSING	1626 2710
CAPITANT, M,	1518 1538
CAPPADONA, C,	2560 4244
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CHEMICAL AND ENG- INEERING NEWS	559 672 1093

ACTIVATION ANALYSIS-AUTHORS

CHEN, P-Y,	5924
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CHENG, H,S,	531 1096 1131
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CHEVARIER, N,	5280
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CHOPOROV, D,Y,	6053 6072
CHOW, A,	4307 4312
CHOWDHARY, S,Y,	2473
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CHUGDAR, A.J.	2493
CHUN, M.J.	3713
CHUNG, K.S.	2888 4312
CHUPEEV, N.E.	5626
CINGOLI, F.	1025
CIUFFOLOTTI, L.	873 1097 1455 1456
CLAEYS, A.	1748
CLARK, H.M.	106 610
CLARK, L., JR.	1618 1787
CLARK, R.G.	1802
CLARK, R.S.	5716
CLAYTON, C.G.	1922
CLESS-BERNERT, T.	1621
COATES, A.D.	3973
COBB, J.C.	1101 1485 3780
COCKBILL, M.H.	1102
COCKS, F.H.	1966
COHAN, M.	2647 2648
COHAN, M.D.	450 2521 2522
COHN, S.H.	6064
COJOCARU, V.	796 803
COLARD, J.	107 1552 6011 6063

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COLAS, R,	1503
COLEMAN, R,F,	108 109 110 111 514 875 1103 1104 4304 4380 5390 5401
COLOMBO, U,P,	1254
COLORADO SCHOOL OF MINES RESEARCH FOUNDATION, INC.	2796
COMANESCU, V,	1822
COMAR, D,	570 882 1105 1143 1250 1278 1824 2558 3728 3745 5596 5701 5998 6001
CONDAMIN, J,	5579
CONDIT, R,H,	346 1483
CONNALLY, R,E,	3117
CONNER, J,P,	1967
CONNOR, J,	263
CONRAD, F,J,	1112 2568 4228 4274 6062
COOK, C,F,	519
COOK, G,B,	681 715 793 1255 2882
COON, J,H,	114
COOPER, R,	2972
COOPER, R,D,	4204 5977
COQUEMA, C,	1454
CORIOU, H,	2726
CORLESS, J,T,	1457 1726 1872 2687 2737 3102 6073
CORLISS, J,B,	5936
CORLISS, W,R,	532
CORNISH, F,W,	115 396

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CORNU, A.	2768
CORNUET, R.	891 1352 1503
CORTH, R.	955
CORYELL, C.D.	1362
COSGROVE, J.F.	116 117 370 371 980 5955 6049 6065
COTTINO, F.	5999
COTZIAS, G.C.	929 1206 1705 2733
COUCHOUD, S.	4393
COULOMB, R.	1817
COULY, J.	1543
COVAULT, D.O.	1917
COVEART, A.S.	1924
COVELL, D.F.	2547 3438
COWPER, G.	1924
CRAM, S.P.	5338 6078 6084 6085
CRAMBES, M.	2129 2280 3487
CRAWFORD, G.I.	3502 3750
CRESPI, M.B.A.	1255
CRIPPS, F.H.	4380 5390
CRISTU, M.	803
CRISTY, G.A.	1048
CROCKET, J.H.	523 524 2839 5717
CROFFORD, W.N.	1568
CROWTHER, P.	1643
CRUMP, J.G.	3460

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CRUMPTON, D,	5594
CSADA, G.I,	5499
CSADA, I,	5793
CSAJKA, M,	1613 3661 4190 5712
CROKE, A,	2659
CUFF, D,R,A,	2429 5372
CURCANEANU, D,	3759
CURIE, I,	118 119 120
CURRAN, S,C,	121 122 354
CURRIE, L.A,	4224
CURRIE, R,L,	1813
CURTIS, H,J,	123
CUTHBERT, G,	1231
CUYPERS, J,	1378 2567
CUYPERS, M,	546 1378 1477 2550 2567 6059
CUYPERS, M,Y,	1978 2586 2707 3461
CYPRES, R,,	1968
CZAMANSKE, G,K,	1107
D AGOSTINO, M.D,	707 3075 5383
D HONT, M,	877
DA SILVA FILHO, J.G.	2904 2930
DABAGIAN, H,J,	232
DABEK, W,	903
DAGLISH, M,	1087

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DAHL, J,B.	50 2853
DAHMER, L.H,	4411
DAKHOV, V,N,	1061
DALE, R, MCS,	124
DALTON, J,V,	5402
DALY, P.J,	5403
DALZIEL, J,A,W,	1108
DAMS, R,	4254 5349 5447 5730
DANFORTH, J,P,	1590
DANGUY, L,	125
DANIEL, R,	1535 3997
DANILCHENKO, I,D.	5317
DANIS, A,	1410
DARDANONI, Z,T,	4243
DARRALL, K,G,	5714
DAS, H,A,	372 854 2838 3738 4230 5996
DAS, M,S,	3560
DASHER, J,	109
DAUDEL, P,	127 128
DAUDEL, R,	126 645
DAVIES, W,H,	514
DAVIS, R,C,	5571
DAYAL, N,	2318
DE BOECK, R,	5381
DE BRUIN, M,	6019

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DE BRUYNE, P,	87
DE CARVALHO, A.M.B.	5770
DE GOEIJ, J,J.M,	2562 2755 6013
DE HEVESY, G,	1379
DE LA BARRE, F,	2620
DE LANGE, P,W,	5761
DE NEVE, R,	2430 2431 2497 3485 3993
DE PADOVANI, I,O	1970
DE SOETE, D,	886 1560 1735 1827 2430 2497 3485 3993 5772
DE VEGA, V,R,	1970
DE VOE, J,R,	2280 2536 2539 2592 2593 2978 3910 4224 5784
DE WET, W,J,	5410 5761
DE, A,K,	129 130
DEAK, M,	1842
DEAN, J,A,	83
DEAN, M,H,	3391
DEBIARD, R,	5445
DEBIESSE, J,	1262
DEBRUN, J-L,	5954
DECAT, D,	866 877 880 986 1156 1234
DECELL, R,F,	348
DECKER, C,F,	1141
DECKER, J,L,	2123
DEGRAZIA, A,R,	1383

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DEHAAN, A., JR.	132
DEIBE, J.	802
DELBECQ, C.J.	133
DELLONTE, S.	5448
DELUCCHI, A.A.	634
DEMIDOV, A.M.	948 6053 6072
DEMILDT, A.C.	771 1256
DEMJEN, Z.	1005
DEPANGHER, J.	1
DERBLAY, P.R.	2719
DERRICK, K.S.	5571
DESAI, H.B.	1596 3560
DESCHAMPS, N.	815 821 851 879
DESSOUKY, Y.M.	4319
DETERDING, J.H.	2651
DEUTSCHMAN, J.E.	5409
DEWAR, W.A.	134 154 2719
DEYRIS, M.	781 851 3721 3722
DIBBS, H.P.	669 972 1353 3718 3785
DICKINSON, R.	1231
DICKSON, R.C.	2503 3956
DIEBOLT, J.	1539 1891 2557
DIECIDUE, A.T.	2732
DIECKERT, J.W.	5571
DIENSTBIER, Z.	1948

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DIMITRIADOU, A,	965 1110
DIVISION OF ISOTOPES DEVELOPMENT	5527
DIXON, B.W,	4255
DIZDAR, Z,	2148 2149
DJOURKOVITCH, O.	188
DMITROVSKII, A,A	5435
DOGADKIN, N,N,	1648
DOGE, H,G.	1485 1592 1632 3990
DOGNIN, J,	3991
DOLOMANOVA, E,I,	5965
DOMINGUEZ, G,	2714
DOPEL, K,	135
DOPEL, R,	135
DORCIOMAN, D,	803
DOROSH, M,M	4277
DORPEMA, B,	5583
DOSHI, G,R,	2786
DOW CHEMICAL COMPANY	1724 2608
DOW SPECTROSCOPY	660
DOWLING, J,H,	962
DOWNS, W,E,	2147
DOWNTON, D,W,	2526
DRAGANIC, I,	1696
DRAGNEV, T,N,	5429

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DRESSER INDUSTRIES INC.	204
DREVER, R.W.P.	354
DREW, D.D.	1809 2574
DRINKIN, V.I.	1558
DRUSCHEL, R.E.	292
DRUYAN, R.	136 730
DRYNKIN, V.I.	1445
DUBEAU, N.P.	1029
DUBINSKAYA, N.A.	5727 5869
DUBOIS, J.	1552 2604 6011 6063
DUC, T.M.	5580
DUCE, R.A.	1266 1569 1874 2873 5397 6017
DUFFEY, D.	738 2141 2665 2722 5407 5743 5747
DUFTSCHMID, K.E.	5994
DUGAIN, F.	1165 1417 1741 1759 1983 2668 5593
DUKENBAEVA, A.R.	5626
DUMESNIL, P.	5449
DUNCAN, R.N.	4327
DUNHAM, C.L.	4376
DUNN, A.L.	1041 1975
DUNN, R.W.	138 512 513
DURBIN, D.R.	5884
DURHAM, R.W.	701

ACTIVATION ANALYSIS-AUTHORS

DUTINA, D.	1509
DUTOV, A,G.	2585 3369 3371 3384 3395 5706
DUTOV, A,I.	3570
DUXBURY, G.	2981
DUYCKAERTS, G.	2713 4303
DVUKHBABNAYA, T.M.	1585
DYBCZYNSKI, R.	2932 2989 5341
DYER, F,F.	819 1361 1499 1716 1717 1725 1796 2531 2533 2699 5711
DYER, I,A.	2685
DYER, N,C.	5756
DYMOND, J,A.	67
DZHEMARDYAN, Y,A.	5854
EASTWOOD, T,A.	141 2787
EBERHARDT, P.	5592
EBERT, K,H.	142 143
EDEN, Y.	4205
EDGINGTON, D,N.	3958
EDWARDS, J.	2733
EDWARDS, J,W.	1178
EDWARDS, L,C.	144
EDWARDS, R,R.	926 6057
EECKHAUT, J.	305
EECKHAUT, Z.	304 306
EGAWA, M.	5566

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EGGEBRAATEN, V.,L. 2524

EGIAZAROV, B.G. 2564 3751

EGOROVA, A.A. 871

EHLERS, K.W. 77

EHMANN, W.D. 9 145 146 199 285 698 988 1002 1017
 1022 1117 1169 1214 1566 1571 1718
 2506 2774 2975 3352 3774 5720 5775
 5884

FICHELBERGER, J.F. 1609 1637 2591 2596

EICHHOLZ, G.G. 147

EIFE, K. 5555

EISNER, U. 4410

EL-SHAMY, H.K. 1856 2654

ELDRIDGE, J.S. 822 1643 1934 1942 1943 1944

ELEK, A. 1615

ELLETT, W.H. 3443

ELLIS, W.H. 2534 2540 2772 6006

EMELEUS, V.M. 561 1132

EMERY, J.F. 291 292 640 641 819 964 974 1031
 1035 1268 1361 1635 1709 1715 1725
 1727 1796 2533 2931

EMHISER, D.E. 274 275

EMMERT, R.A. 4289

ENDO, T. 572 778 1174 1693

ENGELMANN, C. 578 814 849 1043 1263 1778 1816 1823
 2298 2555 3727 5442 6070

ENGLAND, E.A.M. 2433

ACTIVATION ANALYSIS-AUTHORS

ENGLAND, L.D.	2254 3070 3976
ERICKSON, N.E.	6040
ERION, W.E.	148
EROFEEVA, N.N.	5435
EROKHINA, K.I.	149
ERWALL, L.G.	562 573 2563 3733
ESPANOL, C.E.	5378
ESTEY, H.P.	3962
EUKEL, W.W.	77
EULER, B.A.	2547
EUROPEAN ATOMIC ENERGY COMMUNITY	1918 1927 3777
EVANS, C.A., JR.	2514
EVANS, R.D.	1953 2694 2762
EVSEENKO, Y.	1548
EYCHENNE, M.	5444
FABBRI, F.	1415
FACCHINI, U.	151
FALCOFF, R.	2327
FANALE, D.T.	863
FARAGGI, H.	120
FASOLO, G.B.	883 1097 1167 1254 1456
FAURE, J.	3991
FAVALE, A.J.	707

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FEARING, H.W.	909
FEDOROV, V.V.	1430
FELDMAN, I.I.	3462 5577
FELDMAN, M.H.	2584 2585 2637 6068
FELKER, V.M.	2957
FELS, I.G.	938
FENDRIK, I.	5992
FERENCZY, Z.	1113
FERGUSON, R.L.	1268
FERGUSSON, A.G.	154 2719
FERRETT, D.J.	466 615
FEUERSTEIN, H.	2333
FIELDS, T.	938 1141 2125 2535 3710
FIESS, H.	1801
FIFIELD, F.W.	362 600
FILBY, R.H.	1432 1433 1480 1678 2509 2669
FILIPPOV, E.M.	2966
FILIPPOVA, N.V.	3365
FINEMAN, I.	562 573 620 1114 3756
FINK, R.W.	77 157
FINSTON, H.	1860
FINSTON, H.L.	3126 4194
FIREMAN, E.L.	158 563 721
FIREMAN, P.	2730
FISCHER, E.	1523

ACTIVATION ANALYSIS-AUTHORS

FISHER, C.	51 159 564
FISHER, D.E.	1386 1719 1793 1813 5721
FISHMAN, M.J.	2656 4412
FITE, L.E.	574 642 845 1033 1058 1567 1702 1712 1721 1809 1866 1912 2586 2702 2740 3662 5434
FITZGERALD, J.V.	274 275
FLECHON, J.	28
FLECKENSTEIN, A.	1704
FLEGENHEIMER, J.	1504
FLEISCHER, A.A.	1836
FLEISHMAN, D.	2553
FLEISHMAN, D.M.	592
FLEROV, G.N.	301
FLETCHER, K.E.	5547
FLEURENCE, A.	1540
FLIKKE, M.	5405
FLORKOWSKI, T.	5866
FODOR-CSANYI, P.	5348
FOGELSTROM-FINEMAN, I.	160
FOLDZINSKA, A.	1862 6054
FONTAN, J.	1543
FORBERG, S.	919
FORRO UNIVERSAL	653
FORSBERG, H.G.	562

ACTIVATION ANALYSIS-AUTHORS

FORSEN, S.	3965
FORSHUFVUD, S.	565 1225 2570
FORSLEV, A.W.	1422
FOSTER, L.M.	101
FOUARGE, J.	162 2713 4303
FOUCHE, K.F.	4253
FOURCY, A.	2736 2876 3991 4315 5445 5978
FOURNET, L.	760 821 851 879 1410 1699
FRADKIN, G.M.	1430
FRANKE, K.-H.	1000
FRANZ, I.	387
FRANZGROTE, E.	4289
FRASER, R.	1110
FRASER, T.R.	965
FREEDMAN, M.S.	103
FREMLIN, J.H.	6004
FREY, F.A.	6079
FREYBERGER, W.L.	109 171
FRIEDLANDER, G.	1777
FRISCHAUF, H.	1767 3358 3360 5947
FRITZ, G.J.	2540 2772
FRITZ, K.M.	2798 3357 3981
FRITZE, K.	550
FROHBERG, M.G.	2678
FRYER, G.E.	1684

ACTIVATION ANALYSIS-AUTHORS

FRYER, J.R.	1168
FRYKBERG, B.	1089
FUJII, I.	375 426 506 899 960 998 1015 1016 1038 1063 1115 1116 1399 1530 1656 1681 2649 2749 3768 5380 5431 5432
FUJIMOTO, M.	5928
FUJINO, O.	5776 5777
FUJINO, R.	1170 1697
FUJINO, T.	1019
FUKAI, R.	164 165 409 758 823
FUKAO, Y.	2297
FUKASE, M.	2440
FUKUDA, K.	2711
FULLER, R.K.	2553
FURR, A.K.	4287 5744
FURUHASHI, N.	5726
FURUKAWA, M.	1151 1194 1742 3995
FURUKAWA, Y.	5919
GADDA, F.	624 702
GAHN, R.F.	3085
GAITANIS, C.D.	161
GAITTET, J.	166 167 767
GALE, A.J.	91 92 1808
GALESLOOT, T.E.	5996
GALIANO SEDANO, J.A.	4249

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GALIANO, J,A,	1833 2752 2753
GALLYAS, M,	5348
GAMBARYAN, R,G,	5317
GAN, R,	2634
GANAPATHY, R,	5716
GANGADHARAN, S,	1903 2602 2976 3560
GARBRAH, B,W,	3466 5933
GARDNER, R,P,	700
GAREIS, F,J,	2121
GARREC, J,P,	5445 5978
GARZON, O,L,	3474
GATROUSIS, C,	168
GAUDE, G,	2797
GAUDIN, A,M,	169 170 171 445
GAUER, Z,E,	301
GAUTHIER, P,	172 173
GEBAUHR, W,	174 1118 1354 1731 1839 2769 2788 2840
GEHL, M,A,	1474 1959
GELFMAN, A,Y,	4275
GELLI, D,	1406
GENERAL DYNAMICS /GENERAL ATOMIC DIVISION	566 576 577 598 611 663 764 1279 1876
GEORGIEV, N,	984 2923
GERBIER, R,	876

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GERMAGNOLI, E,	2 1074 1095
GERRARD, M,	3803
GETOFF, N,	176
GIAMBASTIANI, R,	2930
GIBBONS, D,	19 177 178 179 180 574 626 642 769 852 1570 1807 1809 1815 1896 2525 3479 3491 3492 3497 3500 5409
GIJBELS, R,	1119 1425 2515 5363 5364 5940
GILAT, G,	772
GILAT, J,	609 840 843 4194 5262
GILBERT, E,N,	2640 3730 3731 5336 5500 5619 5703 5787
GILL, R,A,	181
GILLESPIE, A,S., JR.	678
GILLINGS, B,R,D,	418
GILLIS, J,	1211 1221
GILMAN, A,R,	58
GILMORE, J,T,	696 1258 1670 1738
GINTURI, E,N,	3757
GIOVANNETTI, S,	6008
GIRARDI, F,	579 708 790 942 1042 1277 1281 1541 1573 1598 1676 1729 1755 1779 1878 2556 2757 2836 2901 3082 3724 3793 3985 5421 5980 5987 6016
GIRARDI, G,	977 5583
GIROUX, J,	5580
GIRSHIN, A,B,	4197 5435

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GITLIN, D,	2730
GITTER, S,	772 1645
GLASSON, V,V,	1558
GLAZUNOV, M,P,	1227 2306
GLEIT, C,E,	1478 1584 1655 1786 1844
GLENDENIN, L,E,	133
GLOS, M,R,	2670
GLOVER, E,D,	455
GLUBRECHT, H,	2803 5992
GLUCK, P,	1586
GLUKHAREVA, N,A,	1286 2717
GORBI, A,	1091
GOBRECHT, H,	2775 4299 4300
GODA, S,	1513 5777
GODAR, S,	639
GOEDERT, L,	5450 5451 5452
GOENVEC, H,	313
GOFMAN, A,K,	2717
GOLD, R,	184 185
GOLDBERG, E,D,	84 85 86 186 187
GOLDSCHMIDT, B,	188
GOLDSTEIN, G,	983
GOLDSTEIN, M,I,	538
GOLES, G,G,	1122 5719 5936
GOMEZ, H,	802 1734 2926

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GOODMAN, C.	189
GORDIENKO, A.G.	4196
GORDON, R.E.	732
GORDON, C.L.	190 191 1605
GORDON, C.M.	1606
GORDON, G.E.	5936
GORDON, H.S.	77
GORIN, E.	2933
GORODETZKY, S.	4209
GORSHKOV, G.V.	978
GORSKI, L.	621 1623 1859 3335 5866
GORSUCH, T.T.	192
GOSHI, Y.	1509
GOSSET, J.	1263
GOTO, H.	193 805
GOTTE, H.	194 195
GOVAERTS, J.	203 747
GRABER, F.M.	2272 2350 3100 3101 4284 5979
GRAHAM, L.	2125 2535 3710
GRAKHOV, V.A.	5858
GRAMMAKOV, A.G.	978
GRAND, J.A.	729 1123
GRANDJEAN, P.	197
GRANT, L.G.	966 6006
GRAY, A.L.	1489 2507 2622 3750 4202

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GRAY, F.B.	567
GREEN, D.E.	622 1907 3391
GREEN, F.L.	1590 1591
GREEN, J.L.	4226
GREENDALF, A.E.	634 3333
GREENE, R.E.	261
GREENLAND, L.P.	4388 5307 5718
GREENWOOD, R.C.	665 713 1611 1783 1785 2146 3811
GRIFFON, H.	198
GRILLOT, E.	32 200 202
GRIMANIS, A.P.	686 964 1725 1728 1971 2701 4272 5415 5935 5995
GROSEL, J.	1487 1840
GROSHEV, L.V.	948
GROSSE-RUYKEN, H.	1592 2621
GROSSMANN, K.-D.	1633
GROSSMANN, O.	1632
GROSSO, P.	1965 3957
GROTHER, K.H.	1578
GROVE, G.R.	1609 1637 2591 2596
GRUMMITT, W.E.	1890
GRUNEWALD, R.	1259
GRUVERMAN, I.J.	652 699 1124
GUAZZONI, P.	1046
GUCZI, L.	664

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GUEBEN, G.	203
GUINN, V.P.	183 205 444 568 569 592 659 716 733 846 934 935 1014 1034 1056 1327 1355 1451 1482 1488 1508 1620 1649 1665 1868 2144 2348 2383 2517 2595 2598 2605 2607 2653 2782 2790 2791 2792 2939 2959 3028 3063 3072 3077 3486 3495 3498 3504 3505 4286 5979 6020 6025 6034
GUNNINK, R.	5587
GUNTHER, F.A.	2347
GUREEV, E.S.	3395 5857
GURFINKEL, Y.	609 840
GUSINSKII, G.M.	4197 5435
GUSTAFSON, P.F.	938 2552
GUTTMANN, S.	1020
GUZZI, G.	1573 1676 1729 1755 1779 1878 1919 2556 3082 3793 5421 5583
HAERDI, H.	1321
HAERDI, W.	356 690 906 915 940 1217 1397 1426 1535 1536 2481 2623 2626 3996 3997 4309
HAGGAG, A.	5369
HAHN, K.J.	2434 2445 3062
HAHN, P.B.	5699
HAHN, R.L.	153 201 1065 2259 2531 3071 4193
HAIGH, C.P.	206 207
HAJDUKOVIC, G.T.	1274
HALDAR, B.C.	677 2811 6086

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HALE, F.H.	908 1083
HALL, E.	1132
HALL, H.E., JR.	1683
HALL, J.D.	2504 5578
HALL, T.A.	208
HALLER, W.A.	6012 6058
HALVERSON, G.	910
HAMADA, K.	1929 5969
HAMADA, S.	2440
HAMAGUCHI, H.	209 211 410 571 572 575 585 776 778 779 820 922 1125 1127 1128 1154 1155 1174 1176 1307 1385 1693 2283 2340 3755
HAMAMOTO, K.	2440
HAMANN, W.	2813
HAMELIN, R.	1503
HAMMAR, L.	3965
HAMPTON, W.J.	946 2662
HAN, I.G.	2540 2772
HANDA, M.	604
HANDLEY, T.H.	1351
HAPP, W.W.	213
HARA, R.	947 1694 1908
HARDEN, R.M.	6047
HARMISON, L.T.	2665 2722 3475
HARRAP, V.	2376

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HARRIS, J.A.	1795 2559 2579 2688
HARRIS, W.F.	1589
HARRISON, A.	543
HARRISON, G.E.	214
HARTLEY, H.O.	2691 2706
HASHIMOTO, J.	211
HASHIMOTO, Y.	2672
HASHITANI, H.	2683
HASKIN, L.	728 1383 1474 1959
HASKIN, L.A.	909 5852 5939
HASKINS, J.	2124
HASSELTINE, E.H.	3788
HATTEMER, J.A.	194
HATUDA, Z.	1531 5328 5867
HAUMONT, S.	2633
HAVEN, G.T.	1975
HAVEN, M.C.	1975 3062
HAVENS, W.W., JR.	503 505 506
HAYASHI, S.	4240
HAYES, D.W.	4219
HAZLETON NUCLEAR SCIENCE CORPORATION	668
HEADRIDGE, J.B.	3336 5342
HEADY, H.H.	500 2498
HEALY, W.B.	2881 4232
HEATH, R.L.	2684

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HECHT, F.	813 982 1526 1564 2296
HECKER, A,B,H.	3105
HECKER, R.	1612
HEDGES, D.	2848
HEGEDUES, D.	1614 1832 2806
HEINEN, K,G.	3514
HEINTZ, P,H.	5733
HELBY, P.	943
HELLSTROM, S.	2604
HENDEL, H,W.	21
HENDERSON, P.	5406
HENITZ, P,A.	4283
HENKELMANN, R.	3986
HENNESSEN, J,A.	2124
HENNINGER, W,A.	1124
HENO, Y.	5520
HENRY, W,M.	69 1026 1951 2652
HERAK, M,J.	1581
HERFORTH, L.	1130
HERNEGGER, F.	143 217
HEROLD, C.	1193 1344
HERPERS, U.	5591
HERR, W.	100 218 219 222 223 224 225 226 347 683 1345 1612 2644 5591 5592
HERRMANN, G.	761
HERRMANN, R.	5988

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HERZOG, W.	100
HESLOP, J,A,B.	622 1312
HEVESY, G,	227 228
HEYDORN, K,	2696 3098 3099 3100 4314 5983
HEYMANN, D,	5262
HIGASHI, K,	1325 3773
HIGASHI, T,	5927
HIGH VOLTAGE ENGINEERING CORPORATION	647 1837 1838 1854
HIGHTOWER, D,	1452
HIGUCHI, H,	2340 3994
HILL, N,	1458
HILL, W,W.	678
HILTON, D.A,	1428 2846
HIMES, D,	5745
HIMMEL, L.	346
HINES, C,R,	4413
HINES, J,	2516
HINGORANI, S,B,	2977
HINOSHITA AND SUJI	1758
HIRANO, S.	424 754
HIRAOKA, T,	1929
HIRAYAMA, T,	1929 5969
HIROSE, Y,	403 2418 3033
HIRSCHFIELD, J,	557

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HISADA, T,	5927
HISLOP, J.S.	3461 5790
HOEDE, D,	2838
HOFFMAN, C.M,	2648 4263 6021 6030 6036 6048
HOFFMANN, W,	2657
HOFFMEISTER, H,	2728
HOFFMEISTER, W,	226
HOFSTETTER, K.J,	5403
HOGDAHL, O.T,	1535 1641 1945 3482 5359 5873
HOLLAND, W.D,	692 1584 1655
HOLLAND, W.W,	1478
HOLLANDER, J.M,	1795 2559 2579 2688 4280
HOLM-HANSEN, O,	160
HOLM, D.M,	1604 2949 3970 3977 5417 5752 5769
HOLMES, T.H,	550
HOLT, J.R,	346 1483
HOLTZMAN, R.B,	1439
HOLZL, J,	1534
HONDA, Y,	5926
HONJO, T,	5776
HOOD, D.W,	273 422 586 2848 4219 4255
HOOTON, R.W,	1951
HOPKINSON, E.C,	996
HORI, R,	1395 2973 3769
HORIGUCHI, Y,	3773

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HORN, M.K.	2107
HORNNES, N.	405
HORNSBY, J.B.	2433
HORWOOD, J.L.	213
HOSOHARA, K.	211 571 572 1127 1385
HOSTE, J.	87 229 304 305 306 552 581 687 691 886 893 950 1064 1066 1085 1119 1211 1221 1388 1425 1500 1707 1735 1827 1841 1969 2430 2431 2497 2515 2610 2612 2613 2643 2715 3411 3485 3993 4254 5349 5363 5364 5381 5385 5398 5447 5730 5772 5940 5961 5962 5963 5964 6043
HOSTE, J.J.	5808
HOUSTON, C.D.	2505 3070
HOUTMAN, J.P.W.	1825 2562 2755 6013 6019 6061
HOWARD, P.K.	1917
HOWIE, R.A.	1977
HOYTE, A.F.	2720
HSIA, R.C.H.	1108
HSIEH, S.	5717
HSU, K.	1687
HSU, P-L.	5437
HUANG, H-M.	5437
HUARINGA, M.	230
HUBNER, U.	649
HUDGENS, J.E., JR.	231 232 233 234 617 1357
HUGHES, D.J.	746

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HUGHES, J.D.H.	5932
HUGHES, T.C.	1222
HUIZENGA, J.R.	39 40 41 42 146 1076
HUKAI, Y.	1898
HULL, D.E.	696 1258 1670 1738
HULL, R.L.	3355
HUME, D.N.	71
HUMMEL, R.L.	1737
HUMMEL, R.W.	235 236
HUNT, L.H.	1979
HUNT, L.P.	1803 5347
HURE, J.	38
HUTCHIN, W.H.	719
HUTCHINSON, W.P.	237
HYODO, H.	3341
IBERT, E.	1033 1058 1712 1721 1912
IDDINGS, F.A.	348 1437 2518 2519
IDENO, E.	779 1155 1693
IKEDA, N.	2800
IKEDA, S.	805
IKEMOTO, S.	5927
IKEYA, M.	2804
ILIFF, T.L.	2664
ILLSLEY, C.T.	2549

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IMAI, S.	5924
IMAI, T.	1679
IMOTO, M.	5872
INOUE, Y.	193
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IONOV, V.P.	1227
IREDALE, P.	238 1136
IRVING, G.	742
IRVING, H.	239 240 478 526
ISAEVA, E.A.	869 1223
ISENHOOR, T.L.	1580 1984 1985 2514 3741 4397 5733 6046
ISHIBASHI, N.	1514
ISHIDA, K.	1391 3414
ISHIHARA, M.	1723
ISHII, D.	403 1510 2418 3033
ISHIMORI, T.	1019
ISLAMOV, T.	5857
ISOTOPES	1405
ISOTOPICS	582
ISRAEL ATOMIC ENERGY COMMISSION	2603
ISSEROW, S.	58
ISTVAN, P.	1695
ITANI, M.	4302

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IVANOV, L.I,	2660
IVANOVA, V.F,	905
IWAI, M,	5386
IWASAKA, T,	5872
IWASHIMA, K,	999
IWASHITA, F,	5425
IYA, V.K,	2475
JACOBSON, A,	938
JACOBSON, E.C,	503 2480 2496
JAKOVLEV, J.V,	241
JAKOVLEV, T.U.V,	3732
JAKOWLEW, J.W,	902 1205
JAKUBOWITSCH, A.L,	1885
JAMES, J.A,	242 243 244 245 246 583
JAMES, L.R,	1041
JAMIN-CHANGEART, F,	1621
JANCZYSZYN, J,	3335
JANKE, J,	1704
JANOT, P,	5765
JASKOLSKA, H,	210 248 249 1133 1135 2444
JEFFERY, P.G,	1677 1961 3948
JENKINS, E.N,	250 251
JERCHEL, D,	437 438
JEROME, D.Y,	5718

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JERVIS, R.E.	252 325 326 349 584 706 726 970 1736 1737 2143 2548 2666 5981 6018 6041
JESSEN, P.L.	316 324 1956
JESTER, W.A.	4285 5510
JEWETT, G.L.	1803 2480 2496
JIMENEZ, A.T.	1464
JIMENEZ, P.	1809 1912 2707
JIRLOW, K.	1910 5860
JOHANSEN, O.	50 2739 3079 3961 4195 5713
JOHNSON, D.G.	3960
JOHNSON, F.F.	1680
JOHNSON, G.F.	1041
JOHNSON, J.F.	860
JOHNSON, P.	2969
JOHNSON, R.G.	45 46 49
JOHNSON, R.A.	732 1355 1627 2252 3809
JOHNSTON, W.H.	632
JOLY, M.	1105
JONA, F.	881
JONES, L.V.	1609 1637 2591 2596
JONES, R.E.	274 275 1956
JONES, W.T.	2433
JORDAN, E.D.	1336 1337 1423
JOWANOVITZ, L.S.	727 907
JOZEFOWICZ, K.	923

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JULIANO, J.O.	630 1782 2963 4215 5551
JULIANO, P.O.	5551
JUNKINS, R.L.	3748
JUNOD, E.	1706 1819 2557 2587
JURS, P.C.	4397
KAHNG, M.W.	738
KAINDL, K.	1703 3360
KAPOV, R.L.	1430
KAISER, D.	811 844
KAISER, D.G.	254 1001 1314 1692
KALICHEVA, I.S.	1493 2474
KALININ, A.I.	799 870 2523 3383
KAMADA, H.	2711
KAMAN NUCLEAR	658 2576
KAMATA, S.	1514
KAMATH, P.R.	2984
KAMEDA, K.	757 1257
KAMEMOTO, Y.	215 604 608 774 775 776 777 945 956 957 992 994 995 997 998 1003 1004 1009 1139 1140 1176 1200 1261 1272 1299 1300 1349 1374 1403 1409 1413 1418 1420 1491 1497 1533 1631 1682 1693
KAMINISHI, T.	631
KANABROCKI, E.L.	1141 2125 2535 3710
KANIJ, J.B.W.	2755
KANT, A.	255

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KANTOR, S.A.	3462
KAPLAN, E.	938 1141 2125 2535 3710
KAPLAN, E.P.	1218
KAPLAN, L.	256
KAPLAN, S.A.	6010
KARALOVA, Z.K.	4391
KARASEV, B.V.	904 1062 1393
KARK, R.M.	1311
KARLICEK, V.	5774
KARLIK, R.	1821
KARPUKHIN, O.A.	2564 3751
KARTASHEV, E.R.	5317
KASYMOV, A.K.	5621
KATAKURA, Y.	5393
KATO, H.	516
KATO, P.H.	15
KATO, R.	4240
KATO, T.	1402 1481 1765 2744 5308 5311 5379 5868
KAURANEN, P.	1630
KAWABUCHI, K.	1125 1385 3414
KAWAI, H.	5926
KAWAI, K.	2804
KAWAI, M.	1307
KAWASHIMA, T.	585 602 1142 1208 2502 2920 3770

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KE, C.H,	531 1096 1131
KEAYS, R,R,	5717
KEENAN, C.W.	1351
KEENAN, R.G.	2539 2937
KEEPIN, G.R,	3841
KEHLER, P,	961
KEIMATSU, S.	2711
KEISCH, B,	1326 2546
KELEN, E.	1617
KELLER, R,A.	2680
KELLERSHOHN, C,	570 882 1105 1143 1278 3745 5998
KELLEY, W.D.	952
KEMP, D,M,	257 587 1145
KEMPCHINSKY, P,C.	3073
KENNA, B.T,	1051 1112 1946 2568 4228 4274 6062
KENNA, L.A,	1051
KENNEDY, J,H,	944 2938
KENNEDY, J,W,	1777
KENNINGTON, G.S,	2756 4281
KENT, R,A,R.	1
KERNFORSCHUNGSANLAGE, JULICH, WEST GERMANY	5362
KERR, M,F.	706
KERRIGAN, F.J.	3776
KERTESZ, L,	4190 5945

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KERWICK, W,	1590
KESSLER, W,V,	4329
KETELLE, B,H,	258
KEYNES, R.D,	259
KHAIDAROV, A,A,	924 1162 1550 1551 1553 1554 1555 1556 1557 1585 3362 3385 5857
KHAKIMOV, M,	5621
KHALIFA, K,	5729
KHAN, A,A,	2984
KHARABADZE, N.F,	3757
KHOLIN, A.I,	1559
KHRISTIANOV, V,K,	904 1062 1393 2303
KHUDAIBERGANOV, A,	3369 3370 3371 3760
KHUSNUTDINOV, R.I,	2979 3472 3473
KIBA, T,	4311
KIENBERGER, C,A,	261
KIENLE, P,	862
KIESL, W,	982 1264 1273 1526 1564 2296 2601 2950 4268
KIGOSHI, K,	411 1212 1401
KILLICK, R,A,	221 262 363 364 365 366 601 792 1146 1147 1182 1183 1184 3530
KIM, C,K,	635 740 953 1137 1201 2551 3342 6080
KIM, C-K,	3344
KIM, J,I,	1749 1969 2610 2612 2613 3342 3713
KIM, Y-S,	4296
KIMBERLIN, J,	3476

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KIMURA, K.	916 5926
KIMURA, Y.	5926
KINBARA, A.	1496
KING, E.R.	136 487 488 489 730
KING, R.W.	3027
KINSEY, R.J.	1590
KINSLEY, M.	1860
KIRCHMANN, R.	459 1484 2773
KIRCHNER, J.F.	1586
KIRK, P.L.	1149 6026
KIRNOZOV, F.F.	905
KIRYANOV, G.I.	2561
KISHITANI, M.	4240
KISS, I.	664
KIST, A.A.	1207 1548 1769 3388 3395 3736
KJELBERG, A.	2754
KJELLIN, K.	1287
KJELLIN, K.G.	1421 6009
KLAUS, E.E.	4285 5510
KLECKOVA, E.	1588
KLINE, J.R.	2552 3005 3345
KLOPFER, E.	1602 2761
KLUGER, F.	2296
KNOLLE, K.	4289
KNOTEK, O.	1610

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KNOWLES, F,E., JR. 1982

KNOX, R,J, 5384

KNUDSON, A,R, 5543

KNUTSON, R,A, 555

KO, W,H, 4347

KOBALADZE, M,G, 1329

KOBAYASHI, A, 5327

KOBAYASHI, M, 756 806 1325 1338 1468 1469 1700
3771 3773 5749 5920

KOBAYSHI, M, 6045

KOCH, B, 1848

KOCH, H, 1130 1633 1848 2723 2724 2725

KOCH, H,J., JR. 263

KOCH, R,C, 588 643 676 705 1326 2546

KOCHEROV, N,P, 3394

KODOCHIGOV, P,N, 1227 2306

KOEHLER, W, 1958

KOGA, T, 5926

KOHLER, W, 2625

KOHMAN, T,P, 3934

KOHN-ABREST, M,E. 3726

KOHN, A, 264 265 266 896 1339 1473 1503

KOHN, H,W, 267

KOHN, R,E, 1590 1591

KOJIMA, C, 631

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KOLAR, R.D.	1785
KOLCHINA, A.G.	978
KOLESOV, G.M.	1493 2474
KOLOMIITSEV, M.A.	2957
KONDO, M.	5872
KONDO, Y.	2800
KONIG, H.	142 143 268 269 529
KONISHI, J.	2440
KONO, T.	4240
KOPINECK, H-J.	2615
KOPP, E.	5592
KORBEL, K.	3335
KORNBERG, H.A.	2738 2971
KOROBKO, M.I.	4196
KOROBOV, S.S.	904
KOROTKOVA, V.A.	1049
KORTHOVEN, P.J.M.	5740
KOSHIMIZU, Y.	5327
KOSTA, L.	2882
KOSTER-PFLUGMACHER, A.	2678
KOTELNIKOV, G.A.	6053 6072
KOTT, J.	5774
KOVACINA, T.A.	1568
KOWALSKI, B.R.	6046
KOYAMA, M.	5919

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KOZHEVNIKOV, D.A.	5554
KOZIOROWSKI, J.	5952
KOZMINSKA, D.	1245
KOZUKA, H.	112
KRAMER, H.H.	1150 1334 1340 1790 2382 2662 2676 2690 2789 5953
KRAMER, J.	2779
KRANER, H.W.	2694 2762
KRATOCHVILOVA- TALPOVA, H.	1948
KRAUCH, H.	684
KRAUSS, O.	6069
KREIENBUHL, L.	1159
KRISHNAMOORTHY IYER, R.	1596 1903 2602
KRISHNAN, S.S.	3065 5750 6035
KRIVANEK, M.	2358 3396 4306 5984 6024
KRIVIT, W.	657 1799
KRIVOKHATSKII, A.S.	5318
KROBER, M.S.	2969
KRUGER, P.	652 699 2554
KRYLOV, R.E.	3362
KUBOTA, M.	2464
KUCHAVA, N.E.	3757
KUDINOV, B.S.	5782
KUDO, K.	1018 2887 4298 5753 5922 5928

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KUEHNE, F.J.	3075 5383
KUKHARENKO, N.I.	1430
KUKULA, A.F.	1519
KUKULA, F.	2358 2878 3396 3975 4306 5335 5984 6024
KULAK, A.I.	270 544 545 662
KUNO, H.	2437
KUPER, A.B.	4347
KURIYAMA, S.	5922
KUROCHKIN, S.S.	1358
KURODA, P.K.	5716
KURODA, R.	571 572 575 820 922 1127 1128 1385 2283 3414
KUROSAWA, R.	1320 1672
KUROSU, H.	1338
KUSAKA, Y.	271 272 589 628 827 1111 1152 1202 1267 1315 1656 1879 3764 5566 5924
KUSCH, W.	621 1859
KUTSEV, V.S.	75
KUVIK, V.	1974 5426
KUYKENDALL, W.E.	273 590 1359 3461
KUYPER, E.	107
KUZ/MINSKII, A.S.	3729
KUZNETSOV, K.F.	2750
KUZNETSOV, R.A.	870 2523 3383
KUZNETSOVA, G.A.	2717

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KUZNETSOVA, R.A, 799

KWIECINSKI, S, 2934 3335

LACONI, A, 2964

LAHAIE, G, 1890

LAING, K.M, 274 275

LAJOS, V, 1695

LAKSHMANAN, S, 738 2141 2665 2722 5407 5743 5747

LAM, C.F, 2529 2704

LAMB, J.F, 2688 5768

LAMM, A, 1503

LANDRY, J.W, 3074

LANDSTROM, O, 2852 3808 5771 5785

LANFRANCO, G, 5344 5345

LANG, W, 5988

LANGEROVA, I, 1660 3334

LANGHAM, W.H, 4227

LANGHENRICH, W, 887 888

LANGHOFF, J, 226 1345

LARANJEIRA, M, 37

LAROCHE, G, 1470

LARRABEE, G.B, 2376 3514

LARSON, O.V, 72

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LASCH, J.E, 439 1356 1424

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LAUTTMAN, R.G.	21
LAVERLOCHERE, J.	637 789 833 834 835 836 853 872 890 901 1045 1046 1165 1360 1667 1706 1759 1819 1983 2557 5444 5593
LAVERTY, A.	3076
LAVRUKHINA, A.K.	1441 1493 2474 3754 5759
LAWRENCE RADIATION LABORATORY	2801
LAWSON, D.	2525
LAZZARINI, E.	1415
LBOV, A.A.	591 784 921 1007
LE HERICY, J.	1678
LE POEC, C.	570 2558
LE STRAT, J.	5444
LEAFER, M.A.	5751
LEAVITT, W.Z.	446
LEROEUF, M.B.	509 2599 3117
LECHTMAN, H.N.	1834
LECLERC, P.	1506
LEDDICOTTE, G.W.	43 54 55 56 79 80 81 82 83 277 278 279 280 281 282 283 286 287 288 289 290 291 292 293 294 295 296 297 298 300 329 640 641 654 685 722 735 763 819 859 946 963 964 973 974 981 1031 1035 1039 1060 1088 1189 1190 1268 1316 1350 1351 1361 1476 1635 1638 1674 1709 1725 1727 1728 1746 1796 2931 3483 6028 6051
LEE, C.	2888
LEE, C-J.	3344

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LEE, D.M.	5768
LEE, H.M.	5941
LEE, M.B.	1033
LEE, N.D.	1351
LEE, N.K.	5323
LEE, S.	786
LEE, W.	931
LEE, Y.H.	5323
LEE, Y.Y.	5991
LEHMAN, R.L.	1495
LEIBETSEDER, J.	5994
LEIMDORFFER, M.	5261
LEIPUNSKAYA, D.I.	301 1430 1445 1558 2617 2750 3366 3368 3462
LELIAERT, G.	302 303 304 305 306 689 866 880 893 986 1150 1234
LEMBERG, I.H.	5435
LEMBERG, I.K.	4197
LEMBERT, I.K.	149
LENCHENKO, V.M.	1561
LENIHAN, J.M.A.	134 307 308 309 310 406 593 638 1461 1069 2581 2719 2943 2985 3477 3490 3503 3512 3745 5847 6027
LEONARD, B.H. JR.	4251
LEONHARDT, W.	655 1157 1158 1343 1344
LEONHARDT, W.G.	1075
LEPETIT, H.	2802 4260

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LEPOËC, C.	1105 1143 1824
LERCH, P.	197 1159
LESBATS, A.	2550
LEUSHKINA, G.V.	2385 3384
LEVENTHAL, L.	1478
LEVEQUE, M.P.	311
LEVEQUE, P.	36 104 312 313 332 756 1503
LEVI, H.	227 228
LEVINE, A.S.	2546
LEVINE, C.A.	1160
LEVY, H.B.	5587
LEWIS, J.E.	399 979
LEWIS, J.N.	52 53
LEWIS, M.N.	491
LEWIS, P.R.	259
LEY, J.	1779
LIFBERMAN, K.W.	2991 5775
LIESER, K.H.	3105 5422
LIGHTOWLERS, E.C.	1161 1269
LIHL, F.	3418 4308
LIMA, F.W.	1650 2904 2930 5358 5850 5851 6039
LIN, C.Y.	1096 1131
LIN, S.C.	5323
LINACRE, J.K.	1653
LINDNER, M.	828

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LINEKIN, D.M,	5977
LING, S.M.	6010
LINN, T.A., JR,	5958 6050
LINNENBOM, V.J,	315
LINSTEDT, K.D,	2554
LIVINGOOD, J.J,	443
LIVINGSTON, H.D,	1980 2573 3982 4267 6003
LJUNGGREN, K,	317 318 562 573 594 682 791 1651 2563
LLOYD, K.W,	4322
LOBANOV, E.M,	924 1162 1207 1546 1547 1548 1549 1550 1551 1553 1554 1555 1556 1557 1561 1585 1769 2385 2979 3088 3089 3361 3362 3369 3370 3371 3372 3384 3385 3386 3388 3395 3464 3472 3473 3736 3700 3766 4262 5320 5581 5705 5706 5707 5857
LOCKHART, L.B,	1123
LOEILLOT, A,	815 879
LOEPFE, E,	2481 3989 4309 5942
LOEUILLET, M,	1263
LOGERQUIST, B.A,	1572
LOMBARD, S.M,	5733
LOMER, P.D,	1701 2527
LONG, J.V.P,	319
LOOS, R,	848
LOPOVOK, T.A,	1440
LORIA, G,	759

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LOS ALAMOS SCIENTIFIC 5330
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LOSKA, L. 3335
 LOVE, D.L. 634 3333 5376
 LOVERIDGE, B.A. 177 320 467 595
 LOVERING, J.F. 656 1180 1494 1498 1502 3774 5719
 LOVETT, J.E. 321
 LOWE, L.F. 322
 LOWENHAUPT, E.H. 4226
 LOWMAN, F.G. 1970 5387
 LOWMAN, J.T. 657 1799
 LUDWIG, T.G. 4232
 LUKAC, P. 5859
 LUKENS, H.R., JR. 323 507 599 659 861 1014 1163 1327 1424
 1537 1620 1900 1947 2144 2251 2272 2350
 2553 2595 2598 2663 2696 3028 3072 3100
 3101 4284 4314 5694 5979
 LUNDBERG, M. 741 968 1512
 LUNDE, G. 1205 2739 6023 6052
 LUNDEN, A. 100
 LUNDGREN, F.A. 1864
 LUNDGREN, S. 919
 LUSHBAUGH, C.C. 2422
 LUSSIE, W.G., 2530
 LUSTINEC, J. 2748
 LUTZ, G.J. 1560 4224

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LUX, F.	832 1525 2625 3988
LYKINS, J.H.	327
LYON, W.S., JR.	735 1635 1642 1643 1847 1935 2600 2673 2682 5710 5974
LYOYD, K.W.	4321
MAC KENZIE, J.K.	2251 2350
MACGREGOR, M.H.	917
MACKINTOSH, W.D.	252 325 326 349 416 706 726 920 970
MACKLIN, R.L.	327
MADDOCK, R.S.	345 1164 1698 1733
MADIGAN, S.B.	2782
MADIGAN, S.C.	2790
MAEDA, S.	1338 3771 3773
MAEDA, T.	4207
MAES, K.	1828
MAGGIORE, O.	6008
MAGNO, P.J.	1982
MAGRO, G.	5999
MAHLMAN, H.A.	80 289 329 1088
MAHONY, J.D.	105 1318 1599 1831
MAK, B.K.	3783
MAKASHEVA, I.E.	149 869 1166 1223
MALABY, K.L.	2480 2496
MALESZEWSKA, H.	5430

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MALI, J.W.H.	6013
MALINOWSKI, J.	330 1761 1862
MALMFORS, K.G.	385
MALMON, A.G.	1389
MALVANO, R.	895 1097 1098 1099 1167 1254 1406 1455 1456 1965 2970 3957 4201 5999 6008
MALYSHEW, W.I.	1885
MALYSHEV, V.I.	2747
MALYSHEVA, N.G.	3376 5325 5779 5854
MANDLER, J.W.	2104 2364
MANHARTSBERGER, H.	3397
MANI, R.S.	2473
MANNEY, T.R.	1078 1470
MANSOUR, M.M.	1858
MANTÉL, M.	1020
MANTESCU, C.	1416
MAPPER, D.	468 469 470 471 472 473 597 626 750 1168 1222 1275 1429 4253
MARACCI, G.	4208
MARAFUSCHI, A.M.	5378
MARBLE, G.	2797
MARCHART, H.	813
MARCHETTI, F.	3740 5934
MARCUS, J.H.	2539
MARECEK, J.	2741

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MARK, H.R., JR.	1129 2511 4410
MARKER, R.C.	77
MARKOWITZ, S.S.	1318 1599 1831 5768
MARMIER, P.	1091 1668 1776
MARTIN, D.S., JR.	727 907
MARTIN, E.	690
MARTIN, G.E.	6048
MARTIN, J.	174 1118 1839
MARTIN, T.C.	113 314 1414 1798 2410 2504 2505 3076 3753 3794 4005 5578
MARTINCOVA, Z.	2990
MARTINELLI, P.	884 901
MARTYNOV, Y.T.	2965
MASAGUTOV, V.S.	5621
MASLOV, I.A.	149 869 1166 1647 3363 3381
MASON, G.F.	5498
MASON, R.S.	1803
MASSACHUSETTS INSTITUTE OF TECHNOLOGY	667 5414
MASSART, D.L.	5961 5962 5963 5964 6043
MASSAUX, F.	1484
MASTALKA, A.	2741
MATHE, F.	2806
MATHIEU, R.	894
MATHUR, S.C.	113 1414 1798 5757

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MATSUMOTO, C,	967
MATSUMOTO, W.Y,	137
MATSUMURA, Y,	856 1170 1697
MATSUURA, T,	1333
MATULA, J,	2934
MATVEEV, N,S,	3362
MATVEEV, V,V,	2564
MATVEEVA, N,P,	2385
MAXIA, V,	331 1260 1644 3060 3954 3955
MAY, L.	2129
MAY, S.	28 332 756 789 814 878 1171 1319 1369 1818 2327 2865
MAYES, P,	5742
MAYR, G,	333 334 335
MAZYUKEVICH, N,P.	4277 5319
MC CABE, W,J,	1815
MC CANDLESS, E,L.	3709
MC CARLEY, R,E.	727 907
MC CONNELL, K,P,	709
MC CRARY, J,H,	596
MC ELLISTREM, M.T.	2774
MC ELLISTREM, W.T.	285
MC FARLING, J,L,	1586
MC GONNAGLE, W,J.	2441
MC GUIRE, S.W.	2691

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MC INNES, C.A.J.	1222
MC KAY, H.A.C.	336
MC KIBBEN, J.M.	5773 0056
MC KOWN, D.	5720
MC MASTER, C.H.	3785
MC MILLAN, J.W.	1434
MC MURRAY, C.S., JR.	1871
MC NAMARA, J.	6068
MC NATT, F.B.	907
MC PHERSON, D.	673
MECH, J.	1230
MEINKE, W.W.	130 164 165 254 337 338 339 340 341 342 343 344 345 350 409 666 697 712 720 731 765 914 953 1001 1047 1054 1120 1164 1172 1201 1228 1630 1657 1692 1698 1733 1810 1867 2317 2551 3553 5973
MELCHIORE, J.J.	3027
MELFI, F.	2964
MELLET, M.	892
MELONI, S.	1260 1644 3955
MELSON, S.	3482
MENAPACE, L.M.	5698
MENGER, J.W.	5996
MENIS, O.	706
MENON, M.P.	546 1978 2365 2520 3064 3797 4200 5975
MERCER, W.A.	1913

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MEREN, E.	5386
MERLINI, M.	1277 1781 2901 6016
MERRITT, D.J.	1658 1661
MERRIHUE, C.	3081
MERZ, E.	222 225 347 1173 1381 1522
MESHRI, D.T.	677
MESLER, R.B.	918
MESTER, Z.	4216 5326
METCALF, A.	1594 2507 2622
METVEEV, V.V.	3751
METZGER, A.E.	253 1052 1284
MEYER, R.A.	2972
MEYER, R.C.	233 737
MEYER, R.E.	624 1060
MEZHIBORSKAYA, K.B.	1175 1270 1435
MICHAJLOV, M.	2923
MICHON, R.	3725
MIDGETT, M.R.	4412
MIETTINEN, J.K.	3735
MIGNONSIN, E.P.	1471 2550
MIHAILOV, M.	984
MIHARA, T.	1700
MIKHAILOVA, G.N.	3729
MIKHEEVA, L.M.	1177
MILENKOVIC, S.	2148 2149

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MILLARD, H.T., JR.	5959
MILLER, C.E.	352
MILLER, E.B.	1141 2125 2535 3710
MILLER, F.J.	1450 5710
MILLER, J.M.	11 1777
MILLER, R.R.	1123
MILLER, S.T.	1705 2733
MILLER, W.P.	1789 2123 4283 5746
MILLER, W.W.	1979 3716 5357
MILLET, E.J.	4322
MILLET, R.J.	177 626
MILLS, W.R., JR.	98 2684
MILNER, G.W.C.	353 1178 1921
MILNER, O.I.	451
MINAEV, V.M.	2764
MINCZEWSKI, J.	210 249 1133 1135 1255 1949 2444 2932 3091 5697 5863 6054
MIRANSKII, I.A.	1550 1551 1585 3385 5857
MIRISZLAI, E.	6005
MIRO, M.	1970
MISKEI, M.	2807 3792
MITCHELL, J.C.	273
MITCHELL, T.G.	136 487 488 489 730
MITSUBAYASHI, T.	1385
MIYAGUCHI, M.	804

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MIYAGUCHI, Y,	5926
MIYAKAWA, Y,	1272
MIYAKE, T,	2440
MIYOSHI, K,	426 1067 1399 1656 2297 2649
MIZUGUCHI, H,	2297
MIZUIKE, A,	424 754
MOAURO, A,	2795 5766
MOAV, B,	1645 2821
MOCHIZUKI, Y,	585
MOELLER, D,W,	55 56 290 963
MOGILYOVKIN, V,	773 1762
MOISEEV, V,V,	799 870 2523 3383
MOKHIR, E.P,	4275
MOKI, T,	607
MOLINSKI, V,J,	1150 1334 1340 1788 2499 2690 5953
MOLJK, A,	354
MOLL, E,	2813
MOLLE, E,D,	6010
MOLLER, E,	4000 5177 5238
MOLOKHIA, M,M,	1977 5944
MONAGHAN, R,	961 996
MONGAN, D.M,	1722
MONNIER, D,	355 356 690 906 915 940 1217 1313 1321 1341 1396 1426 1535 2481 2623 3989 3996 3997 4309 5942
MONNIER, R,	197

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MONTARIOL, F,	358
MONTOYA, J,	2124
MONTVAI, A,	3552
MOORE, B,C,	273
MOORE, C,B,	5958 6050
MOORE, F,L,	822
MORGAN, D.J,	2981
MORGAN, I.K,	314
MORGAN, I.L,	113 596 1414 2254 2410 2504 2505 2686 3070 3076 3753 3794 3976 4005 5578
MORGAN, J.W,	469 595 656 1180 1431 1404 1498 1502 5719
MORGAN, W.R,	693
MORI, H,	357 403 2418 3033
MORI, T,	2440
MORISHIMA, H,	5926
MORITA, R,	2440
MORRIS, D,F,C,	221 262 359 360 361 362 363 364 365 366 367 600 601 792 816 1146 1147 1182 1183 1184 1185 1458 1581 3481 3530
MORRISON, G,H,	116 117 368 369 370 371 1040 1289 1580 1775 1984 1985 2277 2514 5986
MORZEK, P,	1037 1193 1344
MOSEN, A,W,	439 1187 1356
MOSES, A,J,	276

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MOSHIER, R.W.	2830
MOSKOVTSOVA, G.A.	1207 1548
MOSKOVTSOVA, G.	1769
MOSULISHVILI, L.M.	3757
MOTOJIMA, K.	2683
MOTOZIMA, K.	419
MOTT, W.E.	148 863 927 1213 1981 2512 3011 3752 5709
MOUND LABORATORY	5332
MOUSTY, F.	4303
MOZLEY, J.M.	1750
MUDROVA, B.	4306 5335
MUEHLHAUSE, C.O.	373
MUKAI, K.	1723
MULLER, G.	2627
MULLER, J.H.	374
MULLINS, W.T.	282 291 292 640 641 1044 1060 1188 1189 1190 1268 1361 1709 1725 1727 1796
MULVEY, P.F., JR.	2972
MUNDKOWSKY, W.F.	273
MUNDSCHENK, H.	5546
MUNZEL, H.	1826
MUNZER, H.	3746
MURIN, A.N.	799
MURRAY, K.	3469

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MURRENHOFF, A.	433
MUSAE LYAN, R.M.	5321 5782
MUSE, L.	422 586
MUSYL, I.	1527
MUTO, H.	426 1115 1115 1399 1656 2649 3719 3768 5380 5431 5432
MYRBERG, N.	6055
MYTTENAERE, C.	459
NADKARNI, R.A.	6086
NAGAHARA, T.	5927
NAGAI, I.	5308
NAGASAWA, H.	2437
NAGATSUKA, S.	1325 1469 3771 3773 5920
NAGY, L.G.	1005 1601 2806 4216 4217 5326 5399
NAKAGAWA, J.	2440
NAKAGAWA, T.	2440
NAKAI, T.	375 605 606 607 608 776 778 779 899 971 995 998 1038 1063 1154 1155 1174 1176 1322 1654 1672 1679 1682 3714
NAKAJIMA, K.	5920
NAKAMURA, Y.	2464
NAKASA, H.	5967
NAKAYAMA, F.	1242 1342 1747
NAMIKAWA, Y.	827
NARGOLWALLA, S.S.	1864 2129 2280 2666 4392

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NARUSAWA, Y.	211
NASCUTIU, T.	511 1404 1774
NASS, H.W.	1698 1791 2789 5953
NATI, G.	383
NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL	3389 5526
NATO ADVANCED STUDY INSTITUTE	800 801 809 847
NATSUME, H.	806
NATUSME, H.	1681
NAUMOVA, I.I.	591 784 921 1007 2658 2661
NAVALKAR, M.P.	701
NEAL, T.E.	2511
NEDOSTUP, G.A.	1559 5577
NEEB, K.H.	2769
NEFEDOV, B.B.	1443
NEFEDOV, O.M.	1218
NEGINA, V.R.	871 1191 2369
NEIDER, R.	1380
NELLIGAN, W.B.	1680
NELP, W.R.	962
NELSON, L.C., JR.	234 377 958 1865
NENOV, N.	984 2923 5428
NETZEL, D.A.	1794 1888
NEUBURGER, M.	3991

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NEW BRUNSWICK LABORATORY, AEC	2987
NEWCOMB, J.C.	1789
NEWTON, D.	155
NEYRET, G.	1262
NGUYEN-LONG-DEN, M.	812
NICHIPORUK, W.	817
NICHOLS, L.L.	1
NICHOLSON, W.L.	1328
NICKEL, H.	2678
NIDAY, J.B.	5587
NIELSEN, J.M.	2738 2998
NIELSON, J.M.	2971
NIEMANN, E.	1192
NIESE, S.	825 851 1193 1343 1344 2578
NIWODENICZANSKI, J.	5950
NIKANOROV, G.S.	1554 1555
NIKANOROV, S.G.	1556
NIKOLAENKO, O.K.	5317 5780
NIKOLAEV, A.I.	3388 3736
NIKOLAEV, A.V.	5619
NILSSON, L.	5238
NIR, A.	1025 1811 2634 3711
NISHI, T.	967
NISHIGAKI, S.	991 3092

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NISHIKAWA, Y,	5777
NISHIMURA, S,	1531 5328 5867
NISHIWAKI, Y,	5926
NISSFEN, H.-U,	1576
NITTO, M,	1929
NIWASE, K.	112
NIXON, G.S,	378 675 2565 2572 2573 3506 6003
NIZET, G,	2713
NOMURA, K,	2744 5379 5868
NOMURA, S,	1694
NORIKOV, A.P,	1554
NORMAN, J.C,	5939
NORRIS, W.P,	1780
NOSTRAND, J.W.,	707 1790
NOTEA, A,	1023
NOVIKOV, A.P,	924 1555 1556 1557 3371
NOVOINY, A.J,	5746
NOWICKA-JANKOWSKA, T.	925 5862
NOZAKI, T,	379 602 1151 1153 1194 1208 1408 1742 3995
NUCIFORA, G,	3740 5448 5934
NUCLEAR APPLICATIONS CONFERENCE	1756
NUCLEAR CORPORATION OF AMERICA	380

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NUCLEAR SCIENCE AND ENGINEERING CORPORATION	787 1914
NUCLEAR-CHICAGO CORPORATION	837
NUCLEONICS	650 1364 1544
NURMATOV, D.	3386 5705 5707
NYSTROM, A.	5767
O CONNOR, J.D.	2553
O CONNOR, J.J.	989 1092
OAK RIDGE NATIONAL LABORATORY	661 810 1438 1442 2391 2588 4317
OBLAS, D.W.	6049
OBRINK, K.J.	930
OBRUSNIK, I.	1121 5956 5984
OBUKHOV, A.P.	809 1166 1223 3363 3381
ODEBLAD, E.	381 382 383 384 385 734
ODEBLAD, S.	384
OESTER, Y.T.	938 1141 2125 2535 3710
OFFORD, R.E.	3469
OGAWA, K.	960 1115 1116
OGBORN, R.E.	1041 3062
OHNO, H.	5967
OI, N.	838
OKA, Y.	1402 1481 1765 2744 5308 5311 5379 5868

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OKADA, M,	20 375 386 387 388 603 604 605 606 607 608 751 752 753 794 797 798 824 826 899 956 957 990 1008 1011 1021 1063 1144 1195 1196 1197 1199 1200 1374 1403 1413 1507 1511 1565 1624 1654 1679 1880 1881 1882 2614 2716 3399 3758 3772
OKADA, T,	967 2804
OKAR, S,	4221
OKUBO, T,	1144 1671
OKUO, T,	3995
OLDHAM, G,	5714 5757
OLEHY, D.A,	439 944 1356 1384 1634 1708 6010 6067
OLIVE, G,	1815 1896 1922 5409
OLIVERI, E,	1517
OLSON, N.T,	3788
OLYA, A,	367
ONCESCU, M,	1416 1822
ONDREJCIN, R.S,	1607
ONO, M,	4240
ONO, R,	4240
ONODA, Y,	774 997 1261 1299 1300
ONOSOV, A.I,	5515 5517
ONUMA, N,	572 922 1125 1307 1385 2283 2340
OOSAWA, M,	1391 2889
OOSTERKAMP, W.J,	1562
OTA, Y,	5327

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OP DE BEFCK, J.	395 2643 2715 5398
OPRAVIL, O.	1363
ORANGE, J.M.	1981 2512
ORDOGH, M.	390 1608 1613 1614 1615 1616 1617 1832 2806 3661 3964 6005
ORLANDINI, K.A.	1863
ORLOV, Y.L.	2306
ORMONT, B.F.	75
ORMOS, G.	2807 3792
ORSONI, L.	151
ORVINI, E.	1595
OSADA, K.	5969
OSAKI, S.	4311
OSAWA, M.	572 585 4302
OSBORN, S.B.	155 6014
OSBORNE, J.F.	2676
OSHRV, H.I.	695
OSMOND, R.G.	391
OSTACHOWICZ, J.	3335 5952
OSTERLUNDH, C.G.	5433
OTSKI, T.	1446
OTVINOWSKI, W.	1203
OTVOS, J.W.	861 1014 1163
OTWINOWSKI, W.	1069 1373 1636 5864
OUELLETTE, R.P.	2695 3959

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OVERMAN, R.T.	106 392 610
OWENS, G.C.	1204
OXLEY, S.S.	5936
OYOSHI, A.	2727
OYOSHI, E.	2727
PADDEN, R.E.	1470
PALINO, G.F.	1803 2902
PALMAI, G.	4270 5970
PALOMARES, J.	2714
PANNELL, J.H.	169 170
PANOV, G.I.	1393
PANTAZIS, G.	686
PAPADOPOULOS, C.	686
PAPADOPOULOU, C.	5995
PAPAVASILIOU, P.	929 1206 1705
PAPE, A.	4209
PAPPAS, A.C.	1205 2754
PAREKH, P.P.	1427
PARK, J.H.	3713
PARK, J-H.	3344
PARKER, C.V., JR.	2410 3076 3794 3976 4005 5610
PARKER, J.L.	1604 5752 5769
PARKER, R.P.	3521
PARKER, S.H.	5769

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PARKHURST, R.M.	5751
PARKINSON, T.F.	959 966
PARR, R.M.	1310 1411 2698
PARSA, B.	1599
PARTHASARATHY, R.	1901 1960
PASCU, N.	5949
PASSELL, T.O.	423 482
PASZTOR, E.	1602 2761 6022
PASZTOR, L.C.	1950 2542 4413
PATE, B.D.	474 475 476
PATEK, P.	1492 2766 3418 4191 4293 4308 4406 5438 5930
PATROVSKY, V.	1582
PATTERSON, J.H.	4289
PAULY, J.	579 942 977 1042 1541 1573 1598 1676 1729 1755 1878 1952 2556 2836 2901 3082 3724 3793 3985 5421 5583 5987
PAXTON, G.D.	2565
PEART, R.F.	881
PECK, P.F.	1020 1028 1209 1210 1951 2429 2652 5372
PEETERMANS, A.	743
PEETERS, E.	1447 1466
PEIRSON, D.H.	393
PEISACH, M.	770 841 842 868 1302 2532 2618
PEISAH, M.	1071
PELEKHOV, V.I.	948

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PELEKIS, L,	5869
PELEKIS, L,K,	5870
PELEKIS, L,L,	2337
PELEKIS, Z,E,	2337
PENAS, N,P, JR,	4258
PENDHARKAR, M.S.	2982 3560
PERDIJON, J.	1304 1640 1753 2983 3090 3980 5443 5708 5853
PEREZHOGIN, G.A,	768 1763 2641 3367 3804 4310
PEREZHOGIN, G.P.	2721
PERFILOV, N.A.	3394
PERKIN, J.L,	108 109
PERKINS, R.W,	2500 3424 4381 6012
PERKONS, A,K,	706 1737 2548 6037
PERLMAN, I,	4280 5788
PERNECZKY, G,	3413
PEROVSKII, A,P,	5515 5517
PERRY, K,I,	2272
PERSIANI, C,	4386 5955 6065
PESTANER, J,F,	5376
PETER, H,	1380
PETER, I,	2659
PETERS, B.F.G,	864
PETERSEN, D,F,	4227
PETERSON, S,F,	2277

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PETIT, J.	814 849 3727
PETKOV, P.M.	3374
PETRZHAK, K.A.	5318
PFEIFER, V.	1273
PFREPPER, G.	2723 2724 2725 2767
PHELPS, P.L.	2547
PHILLIPS, G.	396
PHILLIPS, H.R.	2574
PICCIOTTO, E.	397
PICCOT, D.	1818 2327 2865
PICER, M.	5790
PICK, M.A.	5756
PICON, M.	5579
PIERCE, C.M.	1467
PIERCE, K.C.	316
PIERCE, T.B.	1026 1028 1209 1210 1951 2429 2652 3336 3979 4304 5342 5372
PIETRA, R.	790 1281 1952 2556 2794 2901
PIJCK, J.	1211 1707 1743 1744 1745 1748 1749 2805 2892 3713
PILLAY, K.K.S.	2145
PINDRUS, P.	13
PINK, H.	5350
PINKAS, V.	2386
PINKER, R.H.	183 1034 2959
PINTE, G.	1171 0071

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PIRIE, A.	484
PIRTLE, O.L., JR.	1036
PISA UNIVERSITY, ITALY	3468
PISKUNOV, L.I.	5513
PLAKSIN, I.N.	783 1280 3087 3373 3374 3375 3376 3379 3767 5325 5620 5778 5779 5854
PLAKSIN, M.A.	855
PLANTIN, L-O,	710 1276 2508
PLASHAKOVA, G.P.	6053
PLATZER, R.	2927
PLESHAKOVA, G.P.	6072
PLUMB, R.C.	398 399 400
POCZE, L.	2922
POINT, J.J.	401
POLESHCHUK, T.V.	3382
POLINSKY, P.D.	2123
POLLACK, L.R.	2692
PONITZ, W.	1916
POOLE, D.O.	2532
POPOV, C.P.	1754 2923 3739 5428
POPOV, H.	984
PORIES, W.J.	2124
PURRITT, R.	1845
PORTER, R.S.	800
POST, R.G.	5745

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POSTMA, F.W., JR. 1871

POSTMUS, C., JR. 1230

POTAPOVA, T.A. 3382

POTAPYEV, V.V. 4242

POTRATZ, H.A. 39 40 41 42

POTTER, J.C. 934

POTTIER, R. 4001

POTZL, K. 5522

POURADIER, J. 402

POZYCHANYUK, V.F. 1550 1585 3385

POZZI, G. 6016

PRASILOVA, J. 2845

PREISLER, E. 1829

PRESNYAKOVA, M.A. 2369

PRESSER, G. 2615

PRETORIUS, R. 2618

PRICE, H.J. 2549

PRICKARTZ, R. 2323

PRIEST, G.L. 3781 5339

PRIEST, H.F. 3781 5339

PRISTER, B. 773

PRO, M.J. 763 1031 1077 1635 2647 2648 4263 6021
6030 6036 6048

PROCHAZKOVA, Z. 1963 1972 3393 3669 4213 4248

PROKOPCHIK, V.I. 4276 5356

ACTIVATION ANALYSIS-AUTHORS

PRONIN, V.A,	2640 3730 3731 5336 5619 5703 5787
PRONMAN, I.M,	5321 5781 5782
PROUZA, Z,	1186 1506 2387 5602 5848
PRUD HOMME, J.T.	314 3753
PRUSSIN, S.G,	1795 2559 2579 2688
PURSER, P.R,	405
PUTMAN, J.L,	407 2650
PUTYATINA, N.D,	1558 3368
PYZHOBA, Z.I,	4391
QUAIFE, M.A.	2434 2445 3062
QUESSON, M,	57 1503
QUITTNER, P.	3350 3413 3548 3550 3552 4231 5931
QUIVY, R,	125
QURESHI, I.H,	2006
RAAEN, H.P,	2609 4316
RABINOWICZ, E,	408
RABOT, R,	1503
RADAK, B,	1696
RADIATION COUNTER LABORATORIES	646
RADWAN, M,	1030 5966
RADWAN, Z,	925 5862
RAFAELOFF, R,	1071
RAGAINI, R.C,	1953

ACTIVATION ANALYSIS-AUTHORS

RAI, L,	2318
RAINOSEK, A.P,	3797
RAISIC, N,	1659 1696
RAKOVIC, M,	900 939 1186 1271 1282 1392 1506 1660 1662 1664 1751 1752 1948 1963 1972 2387 2681 2759 2921 2990 3334 3393 3669 3765 4213 4248 5602 5618 5848 5874
RAKOVSKII, E.E,	985
RALEIGH, H.D,	1365
RAMDOHR, H.F,	1521 1886
RAMOS, E,	1970
RANDLE, K,	5936
RANZ, I,	888
RAO, S.R,	2984
RAPPAPORT, R,	1463
RASMUSSEN, N.C,	216 1618 1787 1898 3059
RASSOUL, A,	1345
RATHBURN, D.W,	1794 1888
RAUSCH, H,	4153 5499 5793
RAUSCHER, H.E,	1976
RAYMOND, W.H.A,	214
REBA, R.C,	2585 6068
RECKE, W,	1830
REDDY, G.R,	1449 1639 2982
REED, D,	1428 2846
REED, G.L.V,	6081

ACTIVATION ANALYSIS-AUTHORS

REED, G.W.	209 410 411 412 736 1212
REED, J.H.	665 713 1611 1783 1785 2364
REEDER, S.D.	482
REID, A.F.	413
REIFFEL, L.	414 1311 1366
REINHARDT, K.	1578 1931
REISER, W.	1367
REMBOLD, E.A.	1637
RENGAN, K.	1047
REULAND, R.J.	1283
REVEL, G.	2381 3721 5938 5954
REVENSKA-KOCTSYUK, B.	5966
REYNOLDS, L.M.	4329
REYNOLDS, S.A.	81 293 294 295 296 297 298 300 415 722 1044 1846
REZVANOV, R.A.	1445
RHODES, D.F.	1213
RHODES, J.R.	5764
RICCI, E.	201 416 701 1065 1499 1593 1936 1937 1938 1939 2259 2531 2682 3071 4193
RICHARDS, D.H.	242 243 244 245 246
RICO, J.C.	1518 1538
RIEHL, N.	1252
RIEZLER, W.	417
RIGA, USSR	2675
RIMSKII-KORSAKOV, A.A.	5704

ACTIVATION ANALYSIS-AUTHORS

RISON, M.H,	4273 5420
RISPAL, C.	889
RIVIERE, R,	1278 3745
ROB, C.G,	2124
ROBERTS, J.O,	321
ROBERTSON, D.E,	2500 4381
ROBERTSON, D.S,	2729
ROBERTSON, J.S,	4377
ROBERTSON, O.H,	90 725
ROBIN, G,	1600 5968
ROBINS, C.H., JR.	4287 6082
ROBINSON, B.P,	4412
ROBINSON, E.L,	4287 5744
ROBINSON, J.R,	954 976
ROBSON, A.	1368
ROCCO, G.G,	2541 3474
ROCHAS, P.	1503
RODDEN, C.J,	420
RODERBOURG, J.	1484 2773
RODRIGUEZ, G.D,	1464
RODRIQUEZ MAYQUEZ, E.	2968
ROEDDER, E,	1107
ROELS, J,	2633
ROESMER, J,	588 676 705
ROGERS, G.T,	5932

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ROGUSHIN, I, I,	2750
ROHNSCH, W,	1520 1603 1628
ROJAS, M, A,	2685
ROLLIER, M, A,	1260 1644 3060 3954 3955
ROMANOV, M, M,	924 1162 1551 1553 3362
ROMANOV, O, M,	1162 1554
ROMMEL, H,	1013 1193 1344 2712
ROMMEL, M, A,	2680
RONA, E,	421 422 586
ROOK, H, L,	1861 2777 6066
ROOTS, E, N,	273
ROPER, N, J,	1875
ROSA, U,	3957
ROSE, R, M,	1966
ROSENBAUM, H, S,	5408
ROSENBLUM, L,	3085
ROSENFELD, I,	513
ROSS, A, M,	139
ROSS, D, A,	867
ROSS, H, H,	700 1932 1933 2682
ROSS, W, J,	1035 1226 1710 1711 1796 3074
ROSSI, M, L,	707
ROSSOUW, S, F,	4006
ROTARIU, G, J,	5709
ROTH, E,	2768

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ROTH, L.J.	2642
ROTTMANN, J.	2678
ROTTSCHAFFER, J.M.	4410
ROUBAULT, M.	1308
ROUECHE, A.	1426
ROUTTI, J.T.	5971
ROWE, M.W.	5716
ROWLAND, F.S.	728 909
RUBIN, B.	989
RUBIN, S.	423
RUCH, R.R.	183 1034 2782 2790 2792 2793 2959 2978
RUDELLI, M.	802
RUF, H.	2844
RUNDO, J.	155 3078
RUSHBROOK, P.R.	1214
RUSHIZKY, G.W.	5357
RUSSELL, H.T.	3064
RUSSELL, I.J.	1584 1655
RUSSKAYA, E.I.	3379
RUST, R.H.	2552 3345
RUSTICHELLI, F.	4208
RUTHERFORD, H.A.	1073 1472 1583
RUTTINK, J.	1748 3708
RUZICKA, J.	795 1121 1243 1244 1291 1346 1575 1579 1587 1588 1820 1930 1974 2154 2845 3084

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RYABCHIKOV, D.I.	1285
RYABUKHIN, V.A.	544 662 1285
RYABUKHIN, Y.S.	5976
RYAN, V.A.	1576 4226
RYAN, W.P.	6038
RYBACH, L.	1376 1505
RYCHKOV, R.S.	1286 2717
RYGARD, J.	405 943
RYSKIN, G.Y.	425
RYTCHKOV, R.S.	544 662
SARBIONI, E.	1541 1598 1952 2794 2836 3724 3985 5987
SABINA, A.C.	4258
SABINE, T.M.	3783
SABO, E.	5759
SACCHETTI, N.	1406
SACHA, J.	6044
SAIFUTDINOVA, D.G.	1550 1585 3385
SAIRENJI, E.	1198 1446
SAISHO, H.	1232
SAITO, K.	1151 1194 1742
SAITO, N.	427 1198
SAITO, T.	5311 5379
SAITOH, M.	1496
SAIZFW, F.I.	1885

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SAKAI, T.	1391
SAKAMOTO, A.	4374
SAKANOE, M.	1391 2889 4302
SALAITA, G.N.	1843
SALMIN, J.P.	1885
SALMIN, Y.P.	3387
SALMON, L.	155 239 428 429 430 431 432 477 3426
SAMOSADNYI, V.T.	2764
SAMSAHL, K.	442 714 829 830 1089 1134 1412 1766 1797 1892 1894 2403 2718 4004 5760 5771 5785
SAMSON, C.	1912
SAMUELSSON, E.-G.	4323 5382
SANAD, W.	4203 5729
SANCHEZ IZQUIERDO, J.	2968
SANDERS, F.W.	993
SANDERS, W.M.	1604 3970 3977 5417 5752 5769
SANDOR, J.	1005
SANDRU, P.	1822
SANFORD, W.R.	1048
SANGUIST, V.	1415
SANKAR DAS, M.	1109 1449 1596 1639 1901 1902 1903 1911 2602 2976
SANO, H.	1198
SANTELLI, D.J.	1801
SARDI, A.	5416

ACTIVATION ANALYSIS-AUTHORS

SASAKI, E.	1446
SASAKI, M.	1402 1765
SASAKI, T.	1333
SASAKI, Y.	755
SASTRY, B.V.R.	5756
SATO, K.	838
SATO, M.	1115
SATO, R.	1780
SATO, Y.	5386 5928
SAUNKIN, O.F.	858
SAUTIN, A.	1957 4325
SAVEL, P.	911
SAVOSIN, S.I.	780 1430 2750
SAWAI, T.	1338 1468 3771 5921
SAYRE, E.V.	433 1032 1629 1834 1897 1926 2945 6031
SCHADE, H.	1091
SCHAUB, B.	3727
SCHEER, K.E.	6069
SCHERLE, W.	1010 1012
SCHIAVINI, G.	1095
SCHIERLING, H.E.	1336 1337 1423
SCHIFF, E.	4217
SCHILLING, J-G.	2763
SCHILTZ, J.C.	1454 1817

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SCHINDEWOLF, U. 434 435 436

SCHIRJAJEWA, M.B. 1885

SCHLEIFFER, J-J. 2632

SCHLESINGER, H,L. 2647 2648 4263 6021 6030 6036

SCHMEISER, K, 437 438

SCHMIDT-BLEEK, F. 5403

SCHMIDT, D, 5440

SCHMIED, H, 1760 1842

SCHMITT, R,A, 439 613 648 932 933 944 1187 1251 1323
 1356 1384 1634 1708 2735 5343 5720
 5958 6010 6067

SCHNEIDER, H, 1367

SCHNEIDER, W, 1869

SCHOLES, P,H, 5389

SCHON, A, 1529

SCHONFELD, E, 2450 2533 2545 4210 4326

SCHONFELD, T, 394 440 694 749

SCHONTAG, A, 1732

SCHRADER, C,D, 1052

SCHRAGE, E, 1381

SCHRAMEL, P, 3746

SCHROEDER, G,L, 1216 1953 2694 2762

SCHUHL, C, 38

SCHULERT, A,R, 1858

SCHULTZ, W,W, 718 2571

ACTIVATION ANALYSIS-AUTHORS

SCHULZE, W,	441 627 711 898 1666 2513 2544 2566 3720 3978 5937
SCHUMANN, P,	2335
SCHUSTER, E,	5957
SCHUTZ, D.F,	614 1027
SCHWARTZ, D,	216
SCHWARZER, D,	158
SCHWEIKERT, E.A,	1375 2628 2629 6066
SCOTT, H.D,	4380 5390
SCOTT, J.E,	4263
SCOTT, W.L,	5394
SEABORG, G.T,	443
SEBESTIAN, I,	1363 1574
SEDLACEK, W.A,	1576
SEGEL, R.E,	862
SEINO, H,	516
SEIRMARCO, J.A,	881
SEITNER, H,	2296
SELZ, J,	1217
SEN SARMA, R,N,	15
SENFLE, F,E,	171 445 446 447 2720 4282
SENS, J.C,	4209
SERVIAN, J.L,	2148
SETSER, J.L,	212 988 1022
SETTLE, D,M,	2517 3077 3101 3486 5979 6020 6033

ACTIVATION ANALYSIS-AUTHORS

SEVAST YANOV, Y.G.	1218
SEVIER, P.	5409
SEYFANG, A.P.	448 449 472 1347 1429
SHABANA, R.	2447 4319 5728 5729
SHAH, S.D.	677
SHAMAEV, V.I.	674 858 1215 1246 1247 3364
SHANKS, D.E.	2498 4214
SHARMA, H.D.	1902
SHARP, R.A.	439
SHATS, M.M.	490
SHAW, D.C.	5395
SHCHIOKAVA, T.	2674
SHCHULEPNIKOV, M.N.	1068 2721
SHEDLOVSKY, J.P.	148 927
SHEMAROV, F.V.	1764
SHENBERG, C.	4194
SHESTAKOV, B.I.	1430
SHIBA, K.	604 607 608 774 971 997 998 1038 1299 1300 1654 1682
SHIBAEVA, N.P.	4391
SHIBATA, H.	1650
SHIBUYA, M.	454 3714 5327 5725 5925
SHIDELER, R.W.	914 1054 2538
SHIGEMATSU, T.	1513 5776 5777
SHIKATA, E.	1398

ACTIVATION ANALYSIS-AUTHORS

SHIMELEVICH, Y.S.	969 1430 2750 3462
SHIMIZU, T.	575 820 1127
SHIMP, N.F.	263
SHIMURA, K.	2649
SHINAGAWA, M.	2727
SHIPMAN, G.F.	451
SHIRAISHI, H.	1382
SHIRYAEVA, M.B.	3387
SHKODA-ULYANOV, V.A.	4277 5319
SHMANENKOVA, G.I.	6053 6072
SHNEOUR, E.A.	839
SHORNIKOV, S.I.	1646 2965
SHORT, H.G.	452
SHTAN, A.S.	5317 5780
SHTASEL, A.	910
SHUMWAY, R.H.	1851
SICILIO, F.	936
SIEBERG, R.	3794
SIEMER, P.L.	1259
SILVA, C.M.	5358 5851
SILVANOVICH, Y.A.	5787
SILVERMAN, J.	636 740
SILVERMAN, R.H.	400
SIMKOVA, M.	1519 1545 2386 2878 3975
SIMNAD, M.T.	453

ACTIVATION ANALYSIS--AUTHORS

SIMON, F.O.	5959
SIMON, L.	941 1219
SIMONITS, A.	4231
SIMPSON, G.	561
SIMPSON, H.	179 626 852 1220 1570
SINGH, J.	5571
SINGHAL, N.S.	3556
SION, H.	1221
SIPPEL, R.F.	455
SIPPEL, R.S.	1148
SIRONI, G.	1254
SJOBERG, H.E.	1400 1893
SJOSTRAND, B.	533 534 535 1100 1239 1288 2563
SKINNER, W.A.	5751
SKIPPEN, G.R.	2839
SKLAVENITIS, H.	6001
SKLAVENITIS, L.	5875
SKOUGSTAD, M.W.	2656
SKOVORODKIN, N.V.	5318
SLATER, D.N.	1185 3530 5742
SLEPCHENKO, I.F.	783
SLOAN, R.W.	1843
SLOTH, E.N.	1230
SLOTT, R.	3962
SLOWEY, J.F.	2848 4219 4255

ACTIVATION ANALYSIS-AUTHORS

SLOWEY, J.F., JR.	4291
SLUNECKO, J.	1519 1545 2358 3975
SMAKHTIN, L.A.	985 3365
SMALLS, A.A.	26 27 94 96 236 240 251 257 320 353 391 449 456 457 458 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 525 587 595 615 616 724 745 1145 1222 1275 1429 2338 2528 3979 4253 4266 5411
SMATHERS, J.B.	2141 5407 5743
SMIRNOV-AVERIN, A.P.	1218
SMIRNOV, A.A.	5704
SMIRNOV, V.I.	2337
SMIRNOV, V.N.	479 1280 3767
SMIRNOV, V.V.	5704
SMIRNOVA, N.B.	2717
SMIT, J. VAN R.	239 240 478 526
SMITH, B.A.	1458
SMITH, E.M.	1750
SMITH, E.R.	263
SMITH, G.D.	3750
SMITH, G.W.	1722 1801 2536 2537 4224 5985
SMITH, H.	154 309 310 378 481 565 651 675 788 1224 1225 1928 1977 1980 2565 2570 2572 2573 2719 2942 2958 2985 3507 3982 4267 5847 5944 6003 6042
SMITH, H.P., JR.	3788
SMITH, J.W.	155
SMITH, L.H.	2706 4199

ACTIVATION ANALYSIS-AUTHORS

SMITH, R.H.	692 1323 1356 1634 5720 6010
SMITH, R.L., JR.	273
SMITH, R.R.	482
SMYTHE, L.E.	3968 6038
SOBATCHKIN, A.	773
SOCIETA RICERCHE IMPIANTI NUCLEARI	140
SOCIETE ANONYME DE MACHINES ELECTROSTATIQUES.	1619 1622
SOLBERG, D.E.	959
SOLTYS, M.N.	1289
SOLVSTEN, S.	1241
SOMMERKORN, G.	2615
SONDEL, J.A.	2145 3061 5502
SONNINO, T.	772
SORANTIN, H.	1264 1273 1487 1492 1564 1830 1840 2601 2766 2950 3418 4191 4293 4308 4406 5438 5930
SOREMARK, R.	714 741 829 830 968 1317 1332 1512 1800 3086 4002 6055
SOROIU, M.	1416 5295
SOROKINA, A.V.	5318
SOUBEYRAND, R.	1805
SOULE, J.L.	57
SOULIOTIS, A.G.	928 1057 1964 1971 2701 4272 5415
SOWDEN, E.M.	483 484 485

ACTIVATION ANALYSIS-AUTHORS

SPADACCINO, E.	1260
SPALEK, J.	3811
SPEECKE, A.	1066 1828 2610 2643 5772 5808
SPENCER, R.P.	486 487 488 489 730
SPENGER, R.E.	2347
SPENKE, H.	1821
SPIKES, J.D.	3747
SPIRA, J.	4386
SPITSYN, V.I.	1227
SPRONK, N.	1925 5993
SRAPENYANTS, R.A.	1443
STALLWOOD, R.A.	863
STAMM, S.J.	4283
STANG, L.G., JR.	1873
STANLEY, C.W.	1794 1888
STARCIK, L.P.	479 783 855 1280 3087 3373 3374 3375 3376 3379 5325 5620 5778 5779 5854
STARCIK, M.P.	3767
STARFELT, N.	4000 5177 5238
STARIK, I.E.	490
STARIKOVA, N.A.	5435
STARK, H.	61 1292 1732 1829 2636 3987 5439
STARY, J.	1243 1244 1291 1346 1575 1579 1587 1588 1820 2154 3084
STEELE, E.L.	712 845 1058 1228 1567 1702 1712 1721 1852 1900 1912 2510 2598 2734 2947 2948 3028 3353 3553

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STEEN, H.	2929
STEFANOV, G.I.	984 1754 2923 3739 5428
STEHLIK, G.	1370 1703 1767
STEIM, J.M.	1462 1479 1870 3716
STEIN, M.N.	21
STEINNES, E.	50 1768 2597 2739 2853 3079 3470 3961 4192 4195 4305 5366 5370 5405 5713 5731 5960 6074
STEJSKAL, R.	2878
STENSLAND, W.A.	1802
STEPHENS, W.E.	491
STERLINSKI, A.	5865
STERLINSKI, S.	902 1761 1884 2760 2989 4206 5341
STEVANCEVIC, D.B.	1274
STEVANCEVIC, D.	1771
STEVENSON, P.C.	3380
STEVENSON, R.A.	2732
STEWART, D.C.	492
STIER, P.M.	1150 1340 2690
STIMSON, A.	3391 5390
STINISON, A.	4380
STITCH, S.R.	485
STOCKER, H-J.	2678
STOCKERT, H.	2769
STOENNER, R.W.	493
STOGOVA, G.B.	3374

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STOJANOVIC, N.	4267
STOKELY, J.R.	2157
STOLL, N.	5450 5451 5452
STONE, C.A.	185 414 665 1311 1611
STRAIN, H.H.	1265
STRAIN, J.E.	82 1268 1361 1638 1642 1796 1940 1941 2531 3058 3074 5711
STRAIN, W.H.	1788 2124
STRAUSE, B.M.	509
STRELOW, F.W.E.	1292
STRIBEL, T.	494
STRICKLAND, E.H.	975
STROHAL, P.	5790
STRUTHERS, J.D.	5402
STRZYZEWSKA, B.	5862
STUBBINS, M.	6004
STUDIER, M.H.	1230
STUHL, Z.	88
STUKENBROEKER, G.L.	52 53
SURBOTINA, T.I.	5356
SUDA, K.	2340
SUE, P.	8 495 496 497 498 499 1720
SUFFREDINI, C.S.	439
SUGISHITA, R.	575
SUGISITA, R.	1307

ACTIVATION ANALYSIS-AUTHORS

SUITA, T.	2804
SUKHOV, G.V.	6056 6072
SULIN, V.V.	1646 2965 3462 5950
SUNDERMAN, D.N.	1586
SURKOV, Y.A.	1068
SURLS, J.P., JR.	1160
SUSLOW, V.G.	2965
SUTTON, A.	6002
SUZUKI, H.	5920
SUZUKI, I.	916
SUZUKI, K.	5925
SUZUKI, N.	1018
SUZUKI, T.	1446
SVENKE, E.	5423
SVENSSON, P.	5433
SVIRIDOV, A.I.	1548
SVIRIDOVA, A.I.	1207 1769
SWANBERG, S.C.	542
SWARTHOUT, J.A.	392
SWARTZ, H.M.	1452
SWIFT, G.	1685
SWISHER, J.A.	3973
SZABO, E.	1608 1614 1615 1832 3350 4153 5499 5793 5931
SZEBENYI, I.	4270 5970

ACTIVATION ANALYSIS-AUTHORS

SZEKELY, G.	501
SZEKRENYESY, T.	1005
SZOKOLYI, L.	1601
TABUSHI, M.	5777
TADA, K.	960
TAJIMA, E.	999
TAKACS, G.	4216 5326
TAKADA, K.	5432
TAKAGI, S.	424
TAKAGI, T.	2889
TAKEDA, T.	916
TAKEMOTU, K.	5872
TAKETANI, K.	755
TAKEUCHI, T.,	1510
TALAT-ERREN, M.	4221
TALBOT-BESNARD, S.	1621
TALBOT, J.	502
TALPOVA, E.	1664
TALPOVA, H.	939 1282 1392 1660 1662 1751 1752 3334
TALWAR, U.B.	2811
TAMURA, M.	5923
TANAKA, K.	2052
TANAKA, S.	1151 1194 1742
TANARRO SANZ, A.	2968

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TANG, C.W.	6000
TANI, A.	1115 1116
TANNER, J.T.	1571 3352 4290
TARRAS, S.	1036
TASAKI, A.	1496
TATAR, J.	612 2940 2941 2956
TAURE, I.Y.	2337
TAUSEND, A.	2775 4299 4300
TAYLOR, D.	152 1773
TAYLOR, D.M.	1310 1411 5997 6007
TAYLOR, K.J.	5648
TAYLOR, N.K.	1853
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TAYLOR, W.H.	407 2650
TEOFILOVSKI, C.	2149
TERA, F.	2277
TERADA, K.	4311
TERCHO, G.P.	3061 5502
TEREE, T.M.	6064
TERESI, J.D.	123
TERRANI, M.	5735
TERRANI, S.	5735
TERRELL, C.W.	1785 2104 2364
TERREY, D.R.	2433
TERTOOLEN, J.F.W.	1690

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TESZLER, O.	1073
TEXACO DEVELOPMENT CORPORATION	1772
TEXAS A AND M	156 671 3791
TEXAS NUCLEAR CORPORATION	618 680 1889
THACKRAY, M.	1845
THIEL, A.	1524
THIERY, J.	1503
THILANDER, H.	968
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THOMAS, C.C., JR.	2145 3061 5502
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THOMSON, S.J.	3477 3478
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TITTLE, C,W,	510 679 5552
TITTMAN, J,	1680
TO-ON, M,	936 1899 1912 2705
TOBIAS, C,A,	138 512 513 1470
TODD, R,	1231 1347
TOERIEN, P,V,S,	5410
TOKUNAGA, O,	2464
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TOKYO SHIBAURA ELECTRIC CO. LTD.	5943
TOLBERT, B,M,	160
TOLGYESSY, J,	1754 2923 3739 5428 5859
TOLGYESSY, Y,	984
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TORKO, J.	2671
TOTH, G.	4270 5970
TOTH, L.	633
TOUSSET, J.	4260 4325 5579 5580
TOWELL, D.G.	1835
TRAVESI JIMENEZ, A.	1883 4249
TRAVESI JIMINEZ, A.	2765
TRAVESI, A.	1833 2714 2752 2753 4250 5991
TREW, J.R.	1372
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TSUJI, H.	628 827 1111 1152 1202 1315 1656 1879 2384 5566 5924
TSUKAHARA, I.	575 820

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TSURUMI, Y,	2711
TUCK, D,G,	1181
TUCKERMAN, M,M,	1746
TUMA, D,J,	2434 2445 3062
TUPPER, R,	33 34
TUREKIAN, K,K,	614 1094 1293 1688 3960 3969
TURKEVICH, A,	209 410 411 412 517 1212 4289
TURKOWSKY, C,	2636 3987 5439
TURKSTRA, J,	1825 5410 5761 6061
TURNER, G,	3081
TURNER, P,C,R,	965 1110
TURNER, S,E,	518
TURNOCK, A,C,	555
TUSTANOVSKII, V.T.	3087 5620 5778
TWITTY, B.I,	952
TWITTY, B,L,	1905 2122 2778 2798 3357 3981
TYDEN, G,	5433
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UMEZAWA, H,	357 1694
UNION CARBIDE	1024
UNITED KINGDOM ATOMIC ENERGY AUTHORITY	1571 1923
UNITED STATES ATOMIC ENERGY COMMISSION	520 1290 5849
UNIVERSITY OF WASHINGTON	1806
UPOR-JUVANCZ, V,	390 1616 3964
UPOR, E,	1615
URATA, Y,	1446
URLACHER, C,	2632
UYEDA, S,	2437
VACIK, J.P,	1233
VAISS, K.F,	1329
VAJTA, L,	4270 5970
VAKHTIN, B.S,	2966
VALENTINI, M.T,	1644 3955
VAN DEN BERG, A.J.	6019
VAN DEN BERGHE, H.	229
VAN DEN BROEK, S.E.	1792
VAN DEN WINKEL, P.	5808
VAN DOMELLEN, B.H.	1946
VAN EESTEREN, J,	1516
VAN ERKELENS, P.C.	2036

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VAN KOOTEN, W.J.	6013
VAN NAHL, T.W.	1569
VAN RAAPHORST, J.G.	2838 5996
VAN STYVENDAEL, M.	397
VAN WYK, J.M.	2586
VAN ZANTEN, B.	866 880 986 1234
VANATTA, J.C.	413
VARGA, L.	6069
VARTAPETYAN, B.B.	5435
VASILEVSKIS, J.	1187 1356
VASSOS, R.H.	2511
VEAL, D.J.	519 629 2619
VENET, A.M.	402
VENTER, J.H.	5761
VERBEEK, A.A.	2611
VERBINSKI, V.V.	3717
VERES, A.	1006
VERHEIJKE, M.L.	818
VERNIN, E.	1490 1640 1753 2667
VEZRANOVSKI, E.	5966
VIDAL, J.P.	1518 1600 5968
VIKHITILL, I.	1177
VILLAR, G.E.	1348
VINCENT, E.A.	522 523 524 525 724 1080
VINCENT, H.A.	1887 2354 2453 5739

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VINCENT, J,	521 2633
VIS, H,L,	1552 6011 6063
VITING, B.I,	75 1238
VITZHENC, G,C,	5950
VITZHENTS, G,C,	1646 2965
VLASOV, D.A,	1068
VOBECKY, M,	1610 2741
VODOPIVEC, F,	1770
VOELKER, F,	77
VOGEL, J,	356 906 915 940 1321
VOGT, J,R,	199 285 1017 1954 2506 2774
VOIGT, A,F,	351 1283 1324 1802 1803 1849 2480 2495 2496 3775 5732 5740
VOLBORTH, A,	1229 1294 1887 2354 2453 5322 5353 5739
VOLDET, P,	2623
VOLFOVSKY, R,	1835
VON ARDENNE, M,	744
VON BAECKMANN, A.	2844
VON-GUNTEN, H,R,	1010 1012
VORISEK, M,	1877
VORRES, K,S,	1295
VOS, G,	5987
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WACKS, M.E.	5745
WADE, J.T.	2519
WAGENER, K.	4278
WAGER, L.R.	526 724
WAGGONER, J.A.	1052 5384
WAGNER, A.	5450 5451 5452
WAGNER, C.D.	205 733 861 1014 1163
WAGNER, H.N., JR.	962 1750
WAGNER, R.T.	1967
WAHBA, S.S.	2870 5368
WAHL, W.H.	859 1150 1334 1340 1788 2382 2499 2662 2676 2690 2697 2789
WAHLGREN, M.A.	456 1863 2516 2799 3465 4294 6029
WAINERDI, R.E.	273 574 590 642 845 936 1029 1033 1058 1359 1567 1625 1702 1712 1721 1809 1866 1912 2520 2529 2586 2691 2740 3064 3461 3491 3493 3494 3662 3790 3797 5434 5975 6066
WAKI, A.	4207 5472
WAKITA, H.	1401 2437
WALIS, L.	1030
WALKER, E.J.,	2524
WALKER, F.W.	1236
WALSH, W.K.	1073
WALTERS, R.M.	6049
WALTERS, R.R.	1230
WANG, H-C.	5437

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WANKE, H,	142 143 217 268 269 528 529 530
WASHINGTON POST	1955
WASSEN, A,	565 1225 2570
WASSON, J,T,	1266 3476 5365
WATANABE, K,	572
WATANABE, T,	2283
WATANABE, Y,	1128
WATSON, R,T,	527
WAYMAN, C,H,	937 1237
WEAVER, M,L,	2929
WERER, E,J,	2969
WERER, G,	6059
WEBSTER, R,K,	469 595 1222
WEBSTER, W,	6068
WECHTER, M,A,	1597 1803 3775 5732 5740
WEICK, C,F,	433
WEINER, J,R,	989 1092 1253 2541
WELLWART, Y,	2157 3126
WELWART, Y,	772 782 1025 1070 1645
WENDT, H,R,	881
WENGER, P,E,	1321
WENNER, C,G,	2852 5771
WESTER, P,O,	504 1089 1134 1412 1766 1797 1920 2306 2638 2639 2776 2819 2999 5785
WESTERMARK, T,	317 533 534 535 560 573 620 1114 1239 2563 3734

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WESTGAARD, L,	2754
WESTIN, R,	385
WETHINGTON, J.A.	959
WEY, M.-T.	995
WEY, M-T,	2426 4269
WHITE, E.M.A,	33 34
WHITE, J.C,	2673
WHITLEY, J,E,	622 3466 3480 5933
WIBERLEY, J.S.	1850
WIDELL, M.	560
WIEHART, H,	2655
WIESNER, L,	1390 2746
WILKINS, W,W,	1058 1712 1721 1809 1866 2703
WILKNISS, P,E.	1330 1730 2379 3992 4198 4273 5420
WILLARD, J,E,	536
WILLERS, G,	2775 4299 4300
WILLIAMS, A.I.	452 537 1240
WILLIAMS, D.D.	729 1123
WILLIAMS, G,H,	2254
WILLIAMS, J,D.	1311
WILLIAMS, M,	1930
WILSON, H.W.	3489 3499
WILSON, R.	1860
WILSON, W.E., JR.	2123 4283 5733 5746

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WILZBACH, K.E.	256
WINCHESTER, J.W.	538 623 654 739 748 913 981 1060 1216 1266 1457 1569 1726 1835 1872 1874 2672 2693 2763 2873 5397 6017
WING, J.A.	1297 2516 2799 3465 4294
WINTERINGHAM, F.P.W.	539 540 541 543
WISEMAN, J.D.H.	616
WODKIEWICZ, L.	248 1133 1135 1542 5861
WOHLLEBEN, K.	5957
WOJTKOWSKA, J.	621 1859
WOLBERG, J.R.	2494
WOLFE, R.	138 513
WOLFLE, R.	2644 5591 5592
WOLICKI, E.A.	5543
WONG, K.M.	1324
WONG, K.Y.	5981
WOOD, A.J.	469 470 471 473 1921
WOOD, D.E.	1407 1875 1950 1956 2542 2569 2577 2580 3796 5748 6075
WOOD, H.L.	1572
WOOD, J.D.L.H.	1701 2526 2527
WOODMAN, F.J.	670
WOODRUFF, G.L.	2123 4283 5733 5746
WOODS, J.D.	2480 2496
WOODWARD, K.T.	2585
WORMALL, A.	33 34

ACTIVATION ANALYSIS-AUTHORS

WORWOOD, M.	6007
WRIGHT, H.W.	1060
WRIGLEY, R.C.	1478
WULFF, J.	1966
WYTTENBACH, A.	1010 1012 1973 2645 3998
YAGI, M.	1298
YAJIMA, S.	375 606 607 608 899 971 997 99A 1038 1063 1299 1300 1654 1672 1679 1682
YAKOVLEV, Y.V.	544 662 785 985 1068 164A 2721 5786
YAKUBSON, K.I.	1559 5555
YAMADA, K.	754
YAMADA, Y.	804 1515
YAMAGATA, N.	999 1563
YAMAGISHI, S.	215 775 777 945 992 994 1003 1009 1139 1140 1349 1409 1420 1497 1533 1631
YAMAKI, N.	5923
YAMAMOTO, K.	5922
YAMAMOTO, R.	575 820
YAMAMOTO, S.	5361
YAMASHITA, H.	2800
YANAGISAWA, I.	5929
YANKOVSKII, A.V.	3464 5320
YANSHKEVICH, V.A.	2660
YASUNAGA, T.	572 922 1693
YAVORSKY, P.M.	2933

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YAZAWA, K.	1408
YEH, S.J.	1909
YON, E.	4347
YOSHIDA, H.	1509 2683
YOSHIKAWA, H.	5929
YOSHIMURA, Y.	4311
YOSHISAKI, M.B.	4258
YOUMANS, A.H.	996 1686
YOUNG, M.H.	3350
YUITA, K.	5925
YUKI, M.	5919
YULE, H.P.	659 951 1327 1620 1649 1673 2116 2452 2595 2689 3798 6087
YUSTER, P.H.	133
YUTAKA, M.	1399
ZAHRINGER, J.	493
ZAITSEV, E.I.	949 2747
ZAKHIDOV, A.S.	5858
ZALESSKII, V.Y.	949
ZAMFIR, I.	3759
ZAMYATINA, V.N.	1235 2369
ZAMYATNINA, V.N.	871 1191
ZAPOROZHETS, V.M.	3462
ZDANOVICH, I.D.	5779
ZELEENIN, V.M.	4196

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ZELLER, J.	1495
ZEMAN, A.	1121 1243 1244 1291 1587 1588 1820 1974 2154 2845 3084
ZENGER, J.H.	1052
ZHABIN, A.I.	3732
ZHADIN, V.S.	978
ZHAVORONKOV, V.Y.	2966
ZHELTIKOV, A.N.	5577
ZHIVKOV, Z.	984
ZHURAVSKAYA, E.V.	3729
ZIEMER, P.L.	4329
ZIESSOW, D.	4278
ZIMEN, K.E.	4278
ZITNANSKY, B.	1363 1574
ZIV, D.M.	1430
ZIVKOV, Z.	2923
ZMIJEWSKA, W.	1245 3091 5697 5865
ZONDERHUIS, J.	2838 3738 4230
ZUBER, K.	619 4328
ZUPPINGER, K.	3959
ZVEREV, B.P.	1207 1546 1547 1561 3361
ZVYAGIN, V.I.	1207 1546 1547 1548 1561 1769 3361 3384 3388 3736
ZVYAGINA, L.S.	1769 3388 3736
ZVYAGINSEV, O.F.	674

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ACTINIUM

1439

ALUMINUM

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 433 455 471 491 509 518 555 567 580 605 607 612 625 635
 637 641 665 695 702 711 752 760 810 821 824 834 845 848
 849 850 851 895 897 903 941 961 966 974 1097 1138 1140
 1161 1193 1213 1220 1226 1263 1334 1340 1386 1414 1419
 1420 1442 1456 1460 1466 1471 1492 1558 1559 1611 1616
 1642 1709 1710 1721 1725 1746 1785 1793 1794 1798 1813
 1857 1888 1889 1896 1897 1898 1912 1965 2144 2306 2498
 2499 2504 2507 2526 2550 2662 2689 2699 2751 2764 2766
 2931 2933 2940 2941 2956 3075 3355 3365 3369 3370 3384
 3461 3727 3753 3788 3790 3793 3976 4191 4193 4216 4231
 4232 4258 4286 4293 5326 5383 5384 5591 5727 5759 5957
 5970 5978 6056 6081

ANTIMONY

9 12 21 54 56 83 103 141 149 166 167 174 183 205 215
 231 246 252 255 279 322 323 419 454 460 469 473 509 544
 572 581 606 614 619 625 649 662 674 688 702 704 735 760
 767 775 778 799 803 805 806 845 870 879 886 888 894 899
 927 942 945 950 977 992 997 1027 1030 1034 1063 1064
 1068 1089 1095 1118 1123 1124 1133 1134 1135 1138 1146
 1166 1174 1191 1193 1223 1226 1231 1245 1246 1254 1272
 1275 1286 1299 1300 1314 1338 1344 1349 1354 1371 1412
 1434 1438 1441 1456 1466 1469 1471 1472 1477 1492 1500
 1533 1542 1548 1564 1571 1587 1603 1613 1616 1648 1672
 1693 1699 1700 1710 1715 1723 1732 1736 1737 1746 1766
 1797 1825 1848 1858 1894 1907 1920 1977 2144 2296 2308
 2369 2386 2403 2430 2464 2493 2523 2548 2550 2601 2612
 2639 2688 2689 2694 2699 2739 2766 2769 2776 2801 2819
 2852 2931 2938 2950 2999 3065 3352 3383 3418 3487 3514
 3723 3730 3732 3759 3785 3808 3949 3957 3988 4216 4232
 4253 4268 4286 4290 4293 4300 4308 4328 4329 4381 5326
 5344 5390 5399 5438 5499 5619 5725 5729 5750 5771 5785
 5787 5793 5936 5944 5960 5977 5981 5991 6003 6008 6012
 6037

ARGON

54 55 121 122 268 290 354 419 493 529 670 683 977 1004
 1226 1345 1416 1539 1719 1891 1924 2731 3081 3483 4198
 4224 4278 5295 5449

ACTIVATION ANALYSIS-ELEMENT DETERMINED

ARSENIC

4 5 22 54 55 56 103 116 124 134 140 141 149 154 165 166
 167 172 174 189 193 194 198 205 215 242 245 246 248 255
 270 290 309 310 328 351 370 371 378 409 419 424 431 451
 465 469 473 474 475 476 481 502 504 509 541 544 551 565
 571 572 584 593 606 625 640 649 659 662 674 686 688 689
 702 704 704 706 707 758 760 767 775 778 799 802 804 805
 810 838 845 870 871 879 888 892 894 896 902 911 944 945
 970 985 992 997 1063 1064 1068 1069 1100 1118 1133 1134
 1135 1142 1146 1153 1166 1171 1174 1177 1191 1192 1193
 1223 1225 1245 1246 1272 1275 1288 1299 1300 1314 1344
 1354 1373 1412 1441 1442 1446 1469 1471 1473 1477 1533
 1542 1548 1588 1603 1613 1616 1617 1628 1648 1649 1665
 1672 1693 1699 1710 1725 1727 1728 1734 1737 1746 1749
 1760 1770 1797 1848 1862 1894 1907 1920 1928 1965 1976
 2296 2308 2333 2369 2403 2495 2497 2508 2523 2548 2550
 2570 2619 2638 2639 2640 2688 2689 2690 2699 2707 2717
 2719 2721 2769 2773 2776 2795 2801 2819 2852 2871 2926
 2942 2943 2954 2958 2999 3098 3350 3383 3483 3514 3713
 3725 3726 3730 3731 3748 3791 3808 3993 4232 4253 4268
 4269 4285 4319 5336 5344 5349 5358 5385 5415 5428 5438
 5499 5510 5619 5771 5785 5793 5851 5864 5926 5931 5944
 5983 5991 6003 6008 6023 6037 6039 6040 6052

BARIUM

54 55 56 67 68 183 189 209 214 217 290 326 423 483 484
 485 504 588 614 631 635 676 686 688 704 705 708 723 760
 810 815 824 845 879 966 1014 1027 1034 1045 1086 1118
 1134 1150 1188 1190 1191 1193 1212 1226 1281 1334 1340
 1361 1412 1597 1670 1699 1710 1725 1727 1738 1797 1815
 1825 1890 1896 1920 1973 2308 2464 2474 2498 2523 2550
 2638 2639 2676 2689 2717 2776 2804 2819 2852 2965 2999
 3355 3383 3483 3775 3960 3988 4214 4263 5500 5619 5785
 5936 5977 5991 6002 6067

BERYLLIUM

169 170 184 185 201 380 383 455 479 554 669 855 908 978
 983 1065 1081 1082 1083 1136 1160 1175 1178 1270 1280
 1435 1609 1637 1861 1871 2318 2777 3072 3767 4193 5522
 6056

ACTIVATION ANALYSIS-ELEMENT DETERMINED

BISMUTH

103 141 146 166 167 255 411 419 509 688 697 760 879 894
 1121 1124 1212 1354 1477 1613 1699 2550 3464 3793 5320
 5344 5381 5398

BORON

82 144 181 201 216 333 335 382 455 495 497 530 791 855
 904 905 1013 1091 1280 1312 1393 1546 1547 1561 1618
 1787 1821 1823 1985 2251 2298 2498 2661 2712 2987 3059
 3126 3361 3376 3466 3767 3811 3962 3976 4193 4211 5332
 5408 5429 5566 5756 5779 5854 5919 5932 5933 6056

BROMINE

23 54 55 56 62 68 100 117 126 205 290 328 347 437 442
 504 539 602 625 631 635 641 659 686 688 697 702 704 706
 714 760 810 824 827 829 830 851 888 933 934 942 977
 1012 1055 1072 1086 1096 1118 1134 1208 1226 1266 1412
 1419 1433 1462 1472 1479 1480 1492 1514 1569 1572 1577
 1606 1617 1633 1709 1710 1736 1737 1746 1797 1848 1870
 1874 1920 1964 2308 2347 2403 2508 2509 2548 2550 2614
 2619 2638 2639 2689 2693 2694 2717 2730 2766 2776 2819
 2852 2871 2873 2991 2999 3059 3101 3360 3365 3483 3708
 3716 3791 3808 4194 4214 4254 4285 4329 5370 5390 5397
 5510 5714 5718 5749 5751 5771 5775 5785 5870 5920 5924
 5925 5929 5948 5975 5977 5995 6001 6012 6017 6023 6037
 6055 6058 6085

CADMIUM

9 80 82 103 141 166 167 174 180 255 328 416 419 508 509
 522 535 606 631 662 674 688 697 704 710 713 790 799 815
 870 879 894 968 1006 1014 1042 1045 1063 1080 1088 1089
 1113 1118 1123 1134 1150 1191 1240 1246 1277 1320 1332
 1334 1340 1344 1354 1412 1441 1442 1469 1471 1472 1477
 1478 1584 1603 1614 1634 1655 1699 1703 1709 1710 1725
 1766 1797 1800 1832 1856 1920 2308 2369 2508 2523 2550
 2639 2654 2676 2689 2718 2769 2776 2819 2852 2871 2999
 3376 3382 3383 3808 3811 3949 3964 4214 4267 5307 5325
 5345 5369 5619 5698 5703 5779 5785 5922 5944 5977 5991

ACTIVATION ANALYSIS-ELEMENT DETERMINED

CALCIUM

22 54 56 103 141 155 166 167 174 205 328 423 442 495
 504 509 529 640 652 673 674 688 699 704 708 714 760 815
 829 830 848 852 879 1045 1086 1087 1089 1118 1124 1134
 1159 1166 1193 1247 1281 1292 1354 1362 1371 1457 1466
 1559 1611 1699 1706 1709 1710 1726 1738 1766 1782 1797
 1800 1806 1818 1843 1857 1872 1917 1920 1975 2308 2323
 2422 2523 2550 2618 2638 2639 2687 2689 2737 2751 2776
 2789 2819 2852 2871 2945 2963 2999 3323 3793 4193 4258
 4329 5384 5386 5390 5771 5785 5981 6004 6010 6014 6044
 6067 6073 6081

CALIFURNIUM

822

CARBON

4 8 29 45 46 49 105 113 118 119 201 351 401 417 423 455
 497 498 578 623 637 688 703 704 744 767 811 814 913
 1026 1065 1219 1263 1312 1414 1560 1599 1604 1646 1778
 1798 1816 1823 1831 1837 1849 1889 1898 1951 2298 2495
 2504 2505 2550 2554 2652 2661 2933 2948 2949 2965 3070
 3077 3727 3753 3976 3977 4193 4209 4211 4226 4386 5238
 5442 5621 5769 5954 6004

CERIUM

103 115 141 267 439 546 588 676 688 704 705 767 824 896
 1042 1134 1226 1412 1710 1797 1835 1920 1945 1957 1978
 2308 2474 2498 2639 2689 2694 2776 2819 2836 2852 2945
 2999 3395 3766 3780 3949 5308 5369 5771 5785 5936

CESIUM

79 93 96 103 138 166 167 300 328 433 460 469 477 504
 588 614 676 688 705 790 810 815 879 999 1027 1042 1045
 1089 1134 1193 1222 1226 1265 1412 1449 1466 1477 1563
 1699 1710 1727 1736 1761 1766 1797 1812 1897 1920 1973
 2308 2508 2523 2548 2638 2639 2689 2776 2819 2852 2871
 2931 2989 2999 3375 3383 4310 4381 5341 5369 5500 5619
 5771 5785 5788 5934 5936 6012 6016 6037 6057

ACTIVATION ANALYSIS-ELEMENT DETERMINED

CHLORINE

23 31 32 35 37 44 48 54 55 56 62 68 81 82 117 141 155
 205 290 291 328 419 437 442 588 591 602 625 635 637 641
 652 676 686 688 697 699 702 704 705 714 732 760 777 824
 829 830 845 849 851 871 887 895 921 932 933 941 942 966
 977 992 1010 1061 1086 1138 1193 1200 1208 1217 1226
 1263 1266 1320 1331 1442 1456 1477 1492 1520 1539 1569
 1595 1617 1670 1689 1709 1710 1723 1725 1738 1746 1764
 1772 1819 1843 1874 1902 1913 1971 2141 2148 2347 2422
 2498 2508 2550 2614 2673 2689 2693 2701 2758 2766 2775
 2871 2873 2930 2965 2981 3101 3355 3360 3483 3708 3736
 3752 3778 3791 4191 4193 4195 4258 4285 4296 4299 4327
 5386 5390 5397 5510 5718 5721 5751 5924 5948 6011 6014
 6017 6055 6056 6063 6085

CHROMIUM

22 39 97 103 126 140 141 166 174 205 230 252 291 328
 371 419 433 460 469 482 508 509 614 625 637 640 641 667
 674 688 706 712 716 718 726 735 741 760 767 789 806 815
 879 888 920 942 977 985 987 989 1030 1042 1118 1124
 1134 1138 1165 1211 1226 1245 1247 1251 1254 1255 1263
 1275 1277 1293 1333 1349 1412 1434 1436 1442 1456 1471
 1472 1477 1492 1512 1564 1614 1649 1699 1707 1709 1710
 1717 1723 1725 1736 1737 1760 1786 1795 1797 1825 1832
 1833 1844 1856 1897 1920 1965 2296 2306 2308 2430 2473
 2498 2508 2523 2548 2559 2597 2601 2639 2654 2662 2673
 2689 2690 2717 2721 2735 2739 2753 2766 2769 2776 2819
 2846 2852 2870 2871 2882 2950 2999 3005 3383 3384 3470
 3723 3791 3957 3964 3988 4192 4216 4253 4310 5326 5343
 5350 5369 5390 5438 5448 5499 5500 5581 5619 5728 5771
 5785 5788 5808 5936 5941 5977 6013 6037

COBALT

4 5 13 47 80 83 103 124 130 138 140 141 166 167 174 205
 246 252 254 263 270 328 352 356 390 419 428 433 460 462
 470 482 502 504 509 513 531 588 594 614 616 620 625 635
 637 641 662 667 674 676 688 697 704 705 717 724 726 729
 735 741 760 767 789 790 799 804 810 813 815 823 834 852
 870 879 883 892 906 915 920 940 941 942 977 994 1009
 1027 1042 1045 1088 1094 1095 1097 1098 1099 1118 1123
 1124 1129 1134 1138 1165 1167 1171 1172 1183 1190 1193
 1193 1204 1211 1226 1231 1247 1251 1254 1262 1263 1273
 1277 1293 1313 1321 1344 1349 1354 1371 1406 1411 1412
 1426 1434 1438 1441 1442 1443 1454 1456 1466 1471 1472
 1477 1492 1512 1515 1541 1564 1614 1644 1699 1707 1709

ACTIVATION ANALYSIS-ELEMENT DETERMINED

COBALT (CONTINUED)

1710	1717	1723	1725	1727	1729	1741	1749	1760	1785	1797
1813	1817	1825	1827	1832	1833	1856	1860	1897	1920	1965
2036	2296	2306	2308	2430	2447	2495	2508	2523	2548	2550
2578	2601	2638	2639	2640	2654	2658	2689	2690	2707	2707
2717	2718	2723	2725	2735	2739	2744	2752	2766	2769	2776
2819	2846	2852	2870	2871	2876	2882	2931	2950	2957	2999
3005	3383	3388	3418	3470	3661	3713	3716	3730	3731	3740
3810	3955	3957	3964	4153	4153	4264	4295	4308	4315	4317
4328	4381	5336	5343	5345	5369	5438	5448	5510	5619	5697
5703	5728	5759	5771	5785	5788	5808	5936	5941	5955	5967
5977	5981	6012	6016	6037	6067					

COPPER

5	6	7	12	22	54	55	56	63	68	78	81	83	102	103	116	130	138
140	141	149	166	167	174	183	189	200	205	215	238	246	252				
255	270	290	291	322	328	351	370	371	390	398	402	408	419				
423	442	443	454	462	469	470	471	473	501	502	504	508	509				
513	531	544	550	560	567	571	572	573	594	606	616	621	637				
641	648	649	652	662	674	675	686	688	695	699	702	704	706				
710	712	714	724	726	755	760	767	772	775	789	799	803	804				
805	806	810	813	824	825	829	830	834	848	849	870	879	882				
888	892	894	895	896	899	919	920	922	938	941	945	977	982				
985	987	992	997	1000	1018	1030	1034	1045	1063	1068	1069						
1073	1086	1089	1093	1098	1099	1105	1107	1108	1118	1129							
1132	1133	1134	1135	1138	1141	1156	1162	1165	1166	1172							
1190	1191	1211	1223	1226	1240	1244	1245	1246	1251	1254							
1255	1263	1269	1272	1274	1275	1286	1287	1300	1306	1332							
1344	1349	1354	1373	1384	1398	1411	1419	1421	1441	1442							
1456	1466	1469	1471	1472	1473	1492	1504	1510	1515	1521							
1533	1540	1542	1554	1555	1556	1557	1559	1603	1616	1617							
1623	1641	1645	1648	1652	1672	1692	1699	1700	1703	1707							
1708	1709	1710	1725	1736	1737	1746	1748	1749	1760	1766							
1767	1769	1797	1800	1815	1817	1819	1825	1828	1832	1833							
1841	1848	1855	1859	1886	1895	1907	1920	1925	1926	1965							
1973	1975	1976	2125	2141	2144	2306	2308	2333	2358	2369							
2386	2426	2495	2508	2511	2523	2535	2539	2548	2550	2552							
2578	2579	2590	2597	2601	2610	2619	2638	2639	2640	2673							
2688	2689	2690	2699	2713	2717	2718	2721	2723	2724	2728							
2735	2739	2753	2766	2769	2776	2786	2801	2819	2848	2852							
2871	2876	2882	2929	2930	2950	2965	2978	2999	3005	3027							
3061	3065	3075	3341	3345	3350	3369	3371	3372	3373	3382							
3383	3482	3483	3487	3708	3710	3713	3723	3727	3730	3731							
3732	3738	3740	3760	3791	3797	3808	3957	3961	3964	3988							
3991	3994	3998	4153	4191	4216	4217	4230	4232	4253	4267							
4285	4291	4293	4298	4315	4329	5326	5336	5343	5345	5368							

ACTIVATION ANALYSIS-ELEMENT DETERMINED

COPPER (CONTINUED)

5382 5383 5390 5398 5399 5403 5499 5502 5510 5579 5619
 5697 5703 5725 5750 5770 5785 5793 5864 5869 5924 5928
 5931 5935 5944 5977 5981 5991 5995 6003 6007 6008 6009
 6016 6037 6055 6067

DYSPROSIUM

79 115 139 188 252 267 343 396 419 430 604 713 757 824
 920 958 982 998 1011 1038 1196 1199 1226 1329 1466 1567
 1648 1682 1702 1710 1723 1835 1945 1957 2369 2597 2601
 2689 2694 2735 2920 2950 3770 3780 3811 5746 5992 6074

ERBIUM

115 267 439 544 631 824 1055 1195 1226 1344 1478 1655
 1710 1945 1957 1959 2689 2735 3100 4214

EUROPIUM

39 79 115 139 228 267 343 433 439 572 585 588 662 676
 705 845 958 998 1226 1329 1466 1682 1710 1835 1897 1945
 1957 1959 2350 2474 2689 2694 2735 2800 2945 3395 3397
 3714 3770 3780 3811 4301 5740 5771 5777 5936 6057 6074

FLUORINE

17 23 29 105 141 201 313 382 423 455 479 549 659 704
 712 716 760 824 855 895 986 1055 1065 1084 1157 1263
 1280 1312 1442 1514 1639 1649 1764 1778 1793 1813 1823
 1961 2126 2433 2498 2550 2584 2623 2666 2689 2796 2965
 2987 3059 3089 3101 3767 3781 4000 4103 4198 4261 4276
 4284 4392 5177 5356 5445 6056 6085

GADOLINIUM

79 103 115 139 267 439 688 704 767 824 845 948 1226
 1329 1710 1785 1945 1957 1959 2689 2735 3811 4214 4325
 5308 5740 6043

ACTIVATION ANALYSIS-ELEMENT DETERMINED

GALLIUM

4 12 66 68 80 84 103 166 167 187 210 238 249 252 255
 360 361 370 398 419 443 509 544 606 635 662 688 704 707
 726 760 767 799 805 806 815 834 845 870 879 895 902 920
 985 987 1045 1063 1086 1088 1092 1098 1099 1133 1134
 1135 1138 1165 1166 1226 1245 1246 1264 1272 1338 1349
 1441 1469 1477 1510 1548 1603 1616 1699 1700 1710 1723
 1736 1737 1746 1797 1817 1974 1976 2444 2523 2548 2550
 2579 2601 2683 2688 2689 2717 2718 2721 2769 2801 2950
 3059 3382 3383 3476 3485 3487 3514 3730 3791 3797 3961
 4310 5345 5365 5619 5771 5785 5787 6037

GERMANIUM

469 706 824 1055 1118 1275 1710 1863 2689 2954 3476
 3481 3799 4253 5344 5365 5430

GOLD

9 13 14 85 103 124 149 163 165 166 178 186 187 189 205
 215 235 246 328 374 390 405 409 419 424 462 509 512 523
 524 525 544 545 549 572 601 614 619 625 630 631 640 659
 662 674 686 688 702 706 710 713 714 724 754 755 758 760
 767 799 810 828 829 830 848 858 870 879 887 888 894 942
 943 956 968 977 995 997 1007 1014 1027 1045 1055 1060
 1073 1074 1089 1118 1132 1133 1134 1135 1191 1193 1205
 1226 1233 1241 1254 1271 1277 1286 1299 1306 1310 1320
 1332 1349 1383 1402 1412 1456 1471 1472 1477 1478 1492
 1496 1506 1550 1551 1566 1581 1584 1585 1610 1616 1641
 1648 1649 1655 1672 1699 1710 1725 1727 1736 1737 1743
 1763 1766 1797 1800 1920 1926 1929 1930 1962 2123 2296
 2308 2333 2369 2508 2511 2523 2548 2550 2614 2639 2641
 2688 2689 2699 2715 2717 2718 2721 2766 2769 2776 2801
 2805 2819 2852 2871 2887 2904 2923 2964 2966 2999 3342
 3350 3367 3382 3383 3385 3418 3467 3514 3708 3710 3738
 3757 3964 4153 4217 4230 4232 4242 4244 4249 4307 4308
 4309 4310 4312 4328 4329 5344 5364 5390 5393 5399 5499
 5500 5579 5619 5704 5717 5761 5787 5808 5848 5858 5931
 5940 5942 5949 5959 5977 5981 6008 6037 6050

ACTIVATION ANALYSIS-ELEMENT DETERMINED

HAFNIUM

9 24 103 166 167 176 212 225 238 252 291 313 325 347
 375 419 494 549 588 614 631 641 676 683 688 704 705 726
 760 790 810 824 828 879 895 899 920 967 987 988 1003
 1014 1022 1042 1045 1055 1097 1134 1165 1173 1185 1193
 1226 1236 1381 1410 1471 1472 1477 1492 1564 1573 1574
 1578 1612 1615 1642 1699 1709 1710 1723 1736 1795 1797
 1920 1931 2550 2559 2601 2689 2717 2735 2766 2852 2950
 2979 3811 3996 4214 5369 5500 5515 5517 5771 5785 5788
 5936

HELIUM

114 158 528 563 721

HOLMIUM

103 115 211 267 343 439 544 662 688 704 713 767 1036
 1042 1226 1344 1466 1478 1597 1655 1710 1835 1945 1957
 1959 2621 2689 2735 5732

HYDROGEN

206 207 1062 1377 1415 1772 1785 1843 1898 1906 2303
 3033 3072 3078 5319

INDIUM

82 141 166 205 210 229 234 239 240 240 255 272 301 344
 419 436 478 509 526 544 588 631 637 662 674 676 697 704
 705 713 724 742 760 799 810 815 870 879 894 924 941 957
 964 1006 1014 1045 1055 1118 1133 1134 1135 1166 1168
 1202 1209 1226 1243 1247 1263 1275 1349 1443 1472 1477
 1478 1548 1564 1603 1616 1655 1671 1699 1710 1727 1754
 1758 1797 1879 2340 2444 2523 2525 2601 2614 2640 2683
 2688 2689 2717 2718 2769 2801 2950 2966 3079 3383 3514
 3730 3731 3739 3740 4214 4253 4286 4328 5336 5343 5345
 5619 5703 5785 5870



ACTIVATION ANALYSIS-ELEMENT DETERMINED

IODINE

23 50 54 55 56 61 62 68 90 117 126 130 205 290 333 379
 602 634 638 686 688 697 704 725 760 810 824 827 848 851
 882 926 962 965 966 1020 1086 1096 1105 1110 1122 1143
 1153 1208 1230 1250 1259 1266 1278 1326 1463 1470 1519
 1529 1569 1653 1710 1725 1750 1824 1874 1914 1964 2440
 2508 2546 2550 2558 2689 2693 2695 2758 2813 2873 2972
 2982 3077 3101 3358 3360 3468 3483 3745 3808 3959 4190
 4191 4232 4293 4310 5390 5397 5699 5716 5718 5948 5977
 5995 5999 6000 6015 6017 6023 6047 6058 6068 6085

IRIDIUM

2 9 135 145 221 352 545 588 631 662 676 698 705 727 774
 776 810 817 824 907 964 1014 1055 1095 1176 1193 1214
 1226 1260 1344 1425 1566 1581 1693 1710 1727 2296 2515
 2644 2689 2844 3467 3473 3530 3810 3949 4214 4312 5363
 5399 5436 5619 5706 5717 5940

IRON

4 22 78 83 97 102 103 113 116 138 141 166 167 174 238
 246 252 255 263 291 322 328 352 371 398 408 419 423 433
 471 482 504 508 509 531 567 588 606 614 637 640 641 652
 657 662 665 676 688 692 699 704 705 712 713 716 726 735
 741 755 760 789 790 806 815 834 879 894 920 942 961 977
 987 1005 1042 1045 1063 1089 1118 1123 1134 1138 1165
 1166 1184 1190 1193 1226 1251 1254 1263 1273 1277 1319
 1338 1354 1373 1411 1412 1419 1434 1438 1456 1460 1466
 1469 1471 1477 1512 1542 1559 1564 1603 1611 1614 1616
 1632 1651 1699 1709 1710 1717 1721 1736 1766 1785 1786
 1797 1798 1799 1820 1843 1844 1856 1860 1889 1897 1898
 1912 1920 2308 2447 2507 2523 2526 2548 2550 2601 2629
 2638 2639 2654 2658 2688 2689 2690 2694 2717 2718 2723
 2725 2735 2769 2776 2789 2801 2819 2846 2852 2870 2871
 2876 2878 2931 2933 2950 2965 2999 3005 3075 3382 3383
 3418 3461 3730 3790 3957 3964 4005 4198 4211 4258 4264
 4308 4315 5343 5345 5369 5383 5384 5619 5697 5728 5747
 5759 5766 5771 5785 5787 5788 5808 5864 5936 5939 5941
 5955 5977 5981 5991 6012 6016 6037

KRYPTON

1539 1543 1891 2689 3468



ACTIVATION ANALYSIS--ELEMENT DETERMINED

LANTHANUM

79 103 115 252 395 411 419 433 439 504 511 572 585 688
 704 726 767 896 920 958 977 998 1038 1042 1134 1226
 1412 1419 1438 1466 1473 1540 1549 1596 1597 1682 1710
 1723 1736 1737 1760 1797 1835 1897 1920 1945 1957 1959
 2306 2308 2548 2597 2638 2639 2689 2694 2717 2735 2776
 2800 2819 2836 2852 2882 2999 3005 3384 3395 3470 3714
 3766 3780 4286 4329 5732 5771 5777 5785 5788 5936 6037
 6074

LEAD

141 291 423 1101 1124 1150 1212 1340 1427 1486 1911
 2251 2614 2689 2812 2965 4230 4319

LITHIUM

82 110 158 196 219 256 261 300 397 455 530 728 782 784
 841 949 981 1070 1351 1528 1576 1618 1787 1801 1857
 1906 2251 2385 2543 2755 2927 3059 3126 3374 3793 5854
 6056

LUTETIUM

103 115 224 267 439 588 676 688 704 705 713 767 1014
 1042 1226 1344 1710 1835 1945 1959 2621 2689 2694 2735
 3384 3397 3780 4301 5771 5936 5962

MAGNESIUM

54 55 56 87 98 141 205 290 328 382 442 455 509 580 581
 622 635 638 648 659 707 760 821 845 848 850 851 961 966
 1086 1087 1139 1165 1193 1217 1226 1384 1400 1409 1460
 1611 1616 1649 1708 1710 1785 1893 1942 1975 2306 2434
 2445 2499 2508 2526 2551 2689 2690 2707 2871 2945 3075
 3383 3388 3461 3483 3724 3790 3793 3976 3985 4193 4198
 4258 4272 5383 5384 5743 5759 5924 5977 5978 6056 6067

ACTIVATION ANALYSIS-ELEMENT DETERMINED

MANGANESE

4	5	54	55	56	59	64	68	78	80	81	83	88	97	103	130	140	141
149	166	167	175	189	205	215	238	246	252	271	290	291	291	301	322	331	351
357	419	422	433	442	454	502	509	516	531	544	552	561	564	573	581	586	625
635	637	640	641	648	651	652	662	665	686	688	699	702	704	706	709	710	714
717	718	726	735	760	767	775	777	789	806	810	813	815	829	830	834	845	848
849	850	862	879	882	893	895	896	897	899	902	903	919	920	929	933	934	938
941	942	966	968	969	977	985	987	992	995	1045	1048	1068	1073	1086	1088	1089	1093
1098	1099	1105	1107	1112	1114	1118	1124	1129	1138	1141	1162	1166	1171	1191	1192	1193	1204
1206	1207	1226	1245	1251	1254	1255	1263	1264	1267	1269	1272	1277	1319	1332	1354	1376	1384
1406	1419	1434	1441	1442	1443	1456	1460	1466	1471	1477	1487	1492	1495	1510	1513	1540	1542
1558	1559	1572	1606	1611	1616	1636	1642	1699	1700	1703	1705	1708	1709	1710	1723	1725	1736
1737	1744	1746	1749	1766	1767	1769	1781	1789	1795	1800	1805	1813	1817	1819	1825	1828	1832
1833	1840	1857	1897	1965	1975	2125	2141	2157	2306	2337	2369	2426	2481	2495	2498	2502	2508
2511	2523	2534	2535	2548	2550	2559	2573	2578	2579	2597	2601	2685	2688	2689	2690	2699	2707
2717	2721	2723	2725	2733	2735	2739	2751	2753	2766	2769	2795	2801	2804	2821	2845	2846	2848
2852	2876	2882	2892	2931	2950	2963	2966	3062	3344	3365	3369	3382	3383	3470	3483	3710	3713
3723	3727	3804	3957	3964	3988	4191	4232	4263	4285	4286	4291	4293	4306	4310	4315	4317	4329
4374	5335	5343	5368	5370	5386	5390	5500	5501	5510	5571	5591	5619	5697	5713	5725	5726	5759
5766	5771	5785	5792	5864	5869	5924	5936	5941	5944	5955	5972	5977	5981	5996	6003	6006	6016
6037	6055	6067															

MERCURY

82	103	145	146	166	167	252	302	317	460	504	509	520	533	570	571	614	625
631	636	674	688	689	706	717	740	799	824	879	882	894	942	977	1005	1014	1045
1105	1118	1134	1181	1182	1212	1221	1224	1226	1239	1247	1255	1277	1288	1340	1409	1412	1462
1471	1477	1479	1497	1553	1568	1603	1699	1710	1737	1746	1797	1825	1894	1920	1969	2296	2308
2403	2430	2447	2508	2548	2563	2565	2572	2638	2639	2689	2699	2707	2715	2739	2769	2776	2819
2838	2852	2999	3084	3360	3376	3774	3789	3791	3808	3957	3989	4153	4214	4232	4267	4268	4285
5327	5390	5447	5499	5510	5698	5725	5728	5771	5785	5792	5808	5860	5944	5977	6003	6008	6037
6061	6080																

ACTIVATION ANALYSIS-ELEMENT DETERMINED

MOLYBDENUM

66 68 103 116 140 165 166 167 205 246 291 322 328 398
 409 442 504 508 509 575 641 688 704 726 758 760 767 773
 799 804 810 820 870 879 980 1045 1086 1118 1124 1133
 1134 1135 1150 1165 1190 1191 1215 1220 1234 1254 1275
 1291 1340 1412 1442 1456 1471 1472 1477 1484 1515 1592
 1616 1699 1709 1710 1715 1727 1786 1797 1832 1844 1907
 1910 1920 1965 2308 2369 2495 2508 2523 2550 2638 2639
 2689 2699 2717 2735 2769 2776 2819 2836 2852 2871 2881
 2882 3059 3383 3487 3732 3808 3964 3982 4232 4253 4411
 5785 5808 6003 6008

NEODYMIUM

103 115 267 439 688 704 767 1042 1226 1710 1835 1945
 1957 1959 2498 2597 2689 2735 2999 3087 3384 3395 4250

NEON

528 1891 2689

NICKEL

4 5 78 81 83 103 140 141 149 166 167 174 205 270 282
 287 291 291 322 352 390 419 462 470 471 482 502 508 509
 531 544 614 616 635 641 662 674 688 704 724 755 760 767
 789 804 810 815 818 845 879 896 919 928 1027 1045 1117
 1118 1124 1138 1165 1167 1190 1191 1193 1226 1240 1254
 1354 1375 1398 1441 1456 1471 1477 1515 1526 1559 1614
 1616 1699 1703 1709 1710 1717 1725 1727 1737 1785 1832
 1965 1973 2369 2495 2508 2523 2548 2550 2578 2601 2619
 2658 2673 2689 2723 2724 2744 2769 2950 3383 3418 3661
 3957 3964 4272 4308 5345 5368 5386 5448 5500 5619 5759
 5788 5955 5981 6037

NIOBIUM

89 197 353 419 697 1102 1137 1172 1201 1226 1232 1340
 1410 1518 1538 1582 1710 1911 2499 2502 2611 2689 2690
 2830 3560 3793 4411



ACTIVATION ANALYSIS-ELEMENT DETERMINED

NITROGEN

49 201 346 423 495 497 499 637 696 703 704 712 716 760
 811 814 841 1065 1263 1312 1408 1442 1599 1670 1680
 1738 1778 1816 1823 1849 1857 1896 1898 1939 2129 2298
 2384 2505 2524 2550 2569 2661 3059 3070 3364 3474 3976
 3995 4193 4211 5238 5420 5442 5782 6056

OSMIUM

221 222 224 226 347 352 683 1076 1095 1119 1134 1226
 1340 1431 1492 1502 1710 1797 1920 2689 2766 4312 5436
 5717 5719 5940

OXYGEN

29 38 45 46 49 58 69 74 75 105 108 109 113 131 153 160
 199 201 285 391 403 423 423 426 455 495 497 500 519 549
 567 578 591 596 611 623 629 637 638 654 655 659 695 703
 712 716 756 762 770 771 811 814 839 841 843 860 863 867
 868 912 913 921 959 977 1023 1055 1060 1065 1067 1071
 1075 1103 1104 1116 1151 1158 1190 1194 1229 1238 1248
 1252 1256 1258 1263 1294 1297 1309 1312 1318 1330 1394
 1399 1414 1424 1437 1442 1450 1453 1483 1491 1509 1522
 1530 1532 1589 1598 1604 1646 1649 1668 1675 1686 1704
 1713 1721 1730 1739 1742 1773 1778 1798 1802 1804 1811
 1814 1816 1823 1831 1857 1887 1889 1896 1900 1904 1906
 1912 1915 1939 1950 1954 1956 1979 2129 2297 2298 2381
 2418 2453 2498 2504 2505 2506 2507 2518 2526 2540 2542
 2543 2549 2550 2562 2580 2586 2591 2598 2608 2615 2634
 2649 2668 2678 2684 2686 2726 2734 2749 2764 2772 2774
 2798 2802 2933 2948 2949 2965 2983 3063 3070 3073 3077
 3085 3090 3355 3357 3461 3502 3553 3711 3718 3721 3722
 3727 3729 3746 3753 3768 3771 3783 3790 3793 3810 3965
 3970 3973 3976 3977 3981 3986 3992 4193 4196 4197 4198
 4209 4211 4226 4260 4277 4386 5238 5321 5322 5330 5353
 5380 5384 5409 5431 5432 5435 5442 5450 5451 5452 5708
 5752 5768 5769 5772 5780 5781 5921 5923 5938 6053 6065
 6066 6072

PALLADIUM

28 84 103 166 167 187 262 352 462 525 544 545 588 662
 676 705 724 760 776 879 997 1176 1226 1235 1275 1458
 1539 1581 1693 1699 1710 2689 2839 3810 4253 4312 5307
 5436 5619 5703 5717



ACTIVATION ANALYSIS-ELEMENT DETERMINED

PHOSPHORUS

4 22 35 47 54 56 123 140 161 189 223 243 244 246 255
 328 385 398 414 419 438 442 443 455 504 508 509 553 588
 591 638 641 652 676 688 689 699 704 705 706 714 716 767
 829 830 864 869 871 892 893 894 921 936 954 975 976 977
 979 985 1045 1057 1078 1085 1086 1118 1124 1134 1165
 1166 1177 1190 1193 1198 1215 1223 1237 1242 1311 1342
 1344 1412 1441 1442 1456 1471 1477 1520 1534 1552 1601
 1614 1670 1694 1709 1710 1738 1747 1752 1762 1766 1767
 1778 1780 1797 1815 1818 1832 1870 1892 1896 1899 1907
 1937 1939 1948 1965 2052 2129 2148 2384 2386 2474 2498
 2508 2523 2550 2633 2638 2657 2680 2689 2705 2721 2748
 2759 2764 2819 2849 2852 2871 2931 2945 2965 2969 2999
 3383 3469 3716 3736 3997 4193 4207 4273 4388 5357 5370
 5395 5405 5406 5472 5499 5731 5785 5793 5927 5981 6004
 6012 6056 6063 6086

PLATINUM

9 205 352 509 544 545 588 631 662 676 705 741 776 817
 824 1014 1045 1118 1134 1176 1226 1235 1458 1512 1566
 1649 1693 1710 1797 1920 2639 2717 5436 5619 5717 5942
 5984 6024

PLUTONIUM

326 336 841 1357 1906 1921 2553 2689 2998

POTASSIUM

22 35 54 55 56 73 79 103 123 166 167 189 205 246 259
 268 290 300 371 414 419 429 442 493 538 541 553 637 652
 662 686 688 699 702 704 739 815 845 848 849 879 888 894
 903 923 933 934 1045 1048 1086 1089 1131 1165 1190 1193
 1226 1263 1311 1344 1354 1395 1419 1466 1472 1477 1510
 1552 1558 1559 1597 1660 1699 1707 1710 1719 1746 1785
 1896 1898 1963 2508 2523 2550 2673 2689 2707 2727 2797
 2819 2852 2876 2945 2965 2973 2999 3059 3081 3334 3368
 3383 3393 3483 3669 3736 3769 3775 3791 3810 3990 4193
 4198 4240 4248 4262 4278 4315 5370 5384 5386 5422 5500
 5571 5619 5697 5703 5785 5924 5936 5977 6005 6011 6056
 6063 6067

PRASEODYMIUM

103 115 439 546 688 704 767 960 1115 1226 1710 1835
 1945 1957 1959 1978 2498 2689 2735 3087 3328 3397 4301



ACTIVATION ANALYSIS-ELEMENT DETERMINED

PROMETHIUM

6057

PROTACTINIUM

1439 2889

RADIUM

1439

RHENIUM

85 86 165 186 205 224 226 362 409 511 600 677 683 686
713 758 768 810 964 1045 1226 1431 1478 1502 1584 1585
1655 1710 1727 1760 1803 2296 2350 2431 2689 2811 2902
3384 3414 4310 4311 5592 5619 5703 5719 5857 6054

RHODIUM

344 352 436 631 697 713 824 941 1014 1055 1172 1226
1228 1710 2689 2966 3793 4312

RUBIDIUM

54 55 56 79 93 96 103 138 166 167 290 300 328 460 462
469 477 504 588 614 676 688 705 741 790 810 815 815 824
852 879 968 999 1027 1042 1045 1055 1089 1134 1190 1197
1222 1226 1265 1332 1412 1449 1466 1477 1512 1597 1699
1710 1727 1737 1766 1797 1800 1817 1920 1952 1973 2308
2508 2523 2548 2550 2614 2638 2639 2689 2735 2776 2819
2852 2871 2999 3383 3468 3483 3775 4214 4310 5369 5728
5771 5785 5936 5977 5981 6037

RUTHENIUM

205 347 352 358 588 676 705 1076 1086 1147 1226 1235
1425 1492 1710 2689 2766 2836 4255 4312 5311 5717 5940



ACTIVATION ANALYSIS-ELEMENT DETERMINED

SAMARIUM

79 103 115 139 252 267 343 395 419 433 439 504 572 585
 688 704 713 767 806 920 948 958 998 1036 1038 1042 1226
 1245 1329 1338 1466 1549 1596 1682 1700 1710 1723 1737
 1785 1835 1897 1920 1945 1957 1959 2308 2597 2638 2639
 2664 2689 2694 2776 2800 2819 2852 2999 3395 3470 3714
 3780 3811 4286 5771 5785 5788 5936 6074

SCANDIUM

39 103 140 227 238 252 257 433 509 528 572 587 588 604
 614 637 640 659 676 688 704 704 705 713 735 767 789 806
 810 815 824 834 879 920 942 964 977 987 1011 1042 1045
 1055 1134 1165 1196 1226 1245 1251 1263 1273 1277 1319
 1338 1354 1412 1419 1438 1454 1456 1466 1469 1471 1472
 1477 1492 1493 1540 1564 1596 1649 1699 1700 1710 1723
 1727 1736 1741 1746 1760 1795 1797 1813 1817 1860 1897
 1920 1945 1965 1970 2283 2296 2306 2308 2430 2447 2474
 2550 2559 2597 2601 2639 2689 2690 2694 2717 2732 2735
 2739 2766 2776 2800 2819 2852 2888 2931 2950 2999 3005
 3088 3396 3470 3957 4329 4381 5343 5369 5448 5500 5591
 5728 5771 5785 5788 5934 5936 5939 5941 6012 6079

SELENIUM

103 148 166 167 174 284 328 387 407 419 434 504 542 549
 562 588 592 607 614 625 631 674 676 688 705 706 707 709
 717 726 753 792 810 824 844 852 879 894 1014 1024 1027
 1055 1086 1118 1134 1138 1190 1203 1226 1300 1340 1349
 1412 1442 1477 1567 1649 1654 1665 1699 1702 1710 1712
 1737 1797 1894 1920 2296 2308 2403 2455 2503 2508 2548
 2550 2638 2639 2644 2676 2689 2699 2707 2764 2776 2819
 2852 2853 2871 2954 2999 3060 3418 3791 3808 3948 3954
 3956 4214 4232 4268 4274 4305 4308 5307 5366 5619 5771
 5785 5808 5864 5994 6012 6037

SILICON

4 54 56 81 98 102 113 141 285 291 417 419 423 452 497
 517 518 555 580 591 612 622 623 628 637 641 665 695 712
 716 810 838 850 851 881 921 944 961 1017 1190 1193 1263
 1297 1414 1460 1535 1558 1559 1590 1591 1611 1642 1686
 1709 1710 1721 1740 1785 1798 1818 1832 1843 1875 1889
 1898 1912 1954 2354 2429 2498 2504 2506 2507 2526 2550
 2596 2662 2684 2689 2735 2774 2865 2933 2940 2941 2956
 2965 2987 3075 3355 3461 3753 3790 3976 3997 4005 4193
 4198 4198 4205 4258 5383 5384 5416 5720 5739 5759 5776
 5884 6086



ACTIVATION ANALYSIS-ELEMENT DETERMINED

SILVER

13 30 31 82 83 103 125 130 141 166 167 193 205 255 334
 344 363 364 365 366 386 419 423 436 460 509 549 589 608
 614 619 631 635 638 674 686 688 697 704 709 713 738 741
 760 790 798 805 824 832 845 879 894 941 984 1014 1018
 1027 1028 1036 1042 1045 1055 1066 1093 1095 1106 1111
 1118 1123 1124 1129 1132 1134 1165 1166 1172 1190 1193
 1226 1247 1275 1277 1320 1349 1354 1371 1375 1412 1466
 1471 1472 1477 1478 1492 1512 1525 1542 1567 1584 1614
 1615 1655 1672 1699 1702 1710 1712 1737 1797 1825 1830
 1832 1873 1920 1953 1955 2144 2154 2308 2333 2447 2508
 2511 2523 2548 2550 2612 2625 2639 2671 2689 2694 2699
 2715 2766 2776 2819 2852 2966 2999 3059 3374 3383 3394
 3418 3487 3738 3740 3810 3949 3957 3988 3998 4191 4214
 4215 4230 4253 4303 4308 4328 5307 5344 5369 5394 5438
 5579 5619 5703 5726 5728 5785 5808 5848 5870 5977 6012
 6037 6061

SODIUM

4 6 7 22 29 35 54 55 56 73 79 102 103 104 107 123 136
 141 155 166 167 174 175 189 205 215 237 238 246 252 259
 274 275 290 300 328 330 370 371 382 385 398 400 413 414
 417 418 419 423 429 432 433 442 450 454 455 467 487 488
 489 509 511 521 541 544 553 555 561 564 606 625 635 637
 641 652 659 662 686 688 699 702 704 706 707 714 730 735
 760 767 775 789 810 812 829 830 831 834 842 845 848 849
 850 853 879 887 888 894 895 903 923 933 934 939 942 945
 961 966 968 969 977 979 992 993 995 1045 1055 1061 1063
 1086 1089 1118 1134 1138 1165 1193 1216 1217 1226 1227
 1251 1263 1269 1272 1283 1289 1311 1319 1332 1344 1351
 1354 1376 1392 1395 1398 1419 1438 1452 1456 1460 1466
 1471 1472 1477 1492 1495 1505 1510 1533 1540 1542 1552
 1558 1559 1606 1616 1617 1649 1664 1699 1703 1707 1709
 1710 1715 1725 1736 1737 1746 1751 1766 1780 1785 1800
 1813 1819 1857 1897 1925 1936 1957 1968 1976 1983 2121
 2141 2306 2365 2376 2422 2498 2502 2508 2519 2523 2548
 2550 2579 2619 2651 2657 2662 2673 2680 2688 2689 2690
 2707 2711 2717 2735 2751 2759 2766 2775 2797 2801 2819
 2852 2871 2882 2963 2973 2999 3350 3365 3368 3369 3383
 3470 3483 3708 3723 3736 3769 3791 3808 3964 3990 4191
 4193 4198 4201 4216 4231 4248 4258 4263 4281 4283 4285
 4286 4293 4329 4347 5326 5343 5370 5384 5390 5399 5402
 5500 5510 5619 5697 5703 5725 5771 5785 5869 5924 5931
 5936 5981 6005 6011 6014 6037 6055 6056 6062 6063 6067



ACTIVATION ANALYSIS-ELEMENT DETERMINED

STRONTIUM

22 54 55 56 67 68 80 103 166 167 214 236 290 442 459
 460 469 483 484 485 588 595 614 631 635 676 688 697 704
 705 708 714 723 788 803 810 815 829 830 856 879 963 968
 1014 1045 1086 1088 1089 1134 1150 1170 1190 1226 1277
 1281 1332 1334 1340 1665 1697 1699 1710 1727 1737 1766
 1797 1800 1890 1982 2006 2523 2548 2550 2674 2689 2852
 2977 2984 3383 3483 4272 4329 5500 5619 5755 5771 5785
 5951 5991 6002 6016 6037 6055 6064 6067

SULFUR

22 37 140 141 291 423 437 495 497 588 591 641 652 659
 676 688 699 704 705 706 716 767 892 893 897 921 937 977
 1045 1057 1085 1124 1177 1193 1215 1218 1237 1354 1378
 1455 1456 1471 1477 1479 1520 1559 1570 1601 1621 1649
 1709 1711 1720 1778 1782 1785 1818 1857 1870 1898 1965
 2129 2148 2149 2550 2689 2751 2764 2794 2849 2948 2963
 3709 3716 3723 3793 4193 4227 4258 4285 4300 5510 5543
 5923 6086

TANTALUM

9 26 51 97 103 145 147 166 167 179 197 265 266 291 319
 367 371 390 419 508 509 544 575 614 637 641 662 688 698
 704 729 760 789 799 820 849 870 879 887 896 910 955
 1002 1045 1102 1118 1123 1127 1128 1137 1165 1166 1201
 1226 1263 1319 1410 1434 1454 1478 1487 1518 1538 1582
 1615 1616 1655 1699 1709 1710 1759 1803 1817 1829 1840
 1966 2480 2496 2502 2523 2689 2690 2717 2830 3346 3383
 3387 4310 4411 5500 5786 5936

TECHNETIUM

10 11 15 72 697 1220 2673

TELLURIUM

103 166 167 174 224 270 434 511 588 662 676 688 705 760
 792 845 879 894 1118 1122 1226 1240 1246 1300 1412 1441
 1477 1567 1603 1702 1710 1848 2537 2550 2640 2689 3730
 3731 4321 5307 5336 5619 5716 5730 5948



ACTIVATION ANALYSIS-ELEMENT DETERMINED

TERBIUM

79 103 115 267 439 544 662 688 704 767 1042 1226 1324
 1478 1649 1655 1710 1723 1803 1835 1945 1957 1959 2689
 2694 3100 3395 3714 5771 5936

THALLIUM

89 133 141 146 255 363 365 411 419 697 815 869 883 1172
 1212 1603 1710 2006 2525 2643 2689 3793 4221 4310 5619
 5984

THORIUM

40 41 42 54 55 56 104 120 137 166 250 289 290 393 395
 421 640 641 656 688 704 708 790 808 815 828 879 973
 1042 1045 1090 1165 1180 1189 1226 1277 1361 1371 1391
 1401 1404 1439 1454 1477 1494 1498 1531 1699 1709 1722
 1723 1725 1746 1760 1774 1817 1842 1857 1906 2122 2437
 2447 2550 2636 2714 2852 2882 2976 3105 3483 3958 4198
 4203 4302 4391 5323 5328 5735 5771 5785 5788 5790 5867
 5936 6069

THULIUM

115 439 544 588 662 676 705 713 811 1042 1226 1344 1478
 1584 1655 1710 1803 1835 1945 1959 2689 3714 5308 5936

TIN

141 149 174 205 508 509 537 575 588 631 676 702 705 790
 799 820 845 870 894 941 1042 1045 1113 1123 1124 1125
 1133 1135 1165 1166 1191 1226 1349 1385 1564 1709 1710
 1856 1863 2144 2296 2430 2523 2601 2640 2654 2689 2694
 2717 2769 2950 3383 3730 3731 3793 4268 4328 5336 5344
 5369 5619 5712 5977

TITANIUM

78 83 140 205 291 659 697 760 821 841 851 953 1124 1134
 1172 1226 1340 1363 1375 1442 1501 1710 1797 1863 1898
 1911 1965 2306 2499 2550 2628 2689 2689 2965 3355 3560
 3793 4189 4211 4286 6065



ACTIVATION ANALYSIS-ELEMENT DETERMINED

TUNGSTEN

26 65 81 103 140 141 145 165 166 167 189 205 230 246
 252 291 304 347 371 409 419 504 508 548 549 575 631 637
 659 687 688 698 704 714 726 758 760 767 779 783 799 810
 820 824 829 830 849 870 879 893 920 990 1042 1045 1055
 1086 1093 1118 1118 1150 1155 1165 1169 1215 1226 1263
 1332 1340 1363 1371 1406 1412 1471 1477 1487 1649 1693
 1699 1709 1710 1727 1800 1817 1829 1840 1920 1965 2308
 2480 2495 2496 2502 2523 2550 2614 2638 2639 2690 2717
 2718 2769 2776 2819 2852 2882 2999 3379 3383 3384 3808
 3810 3975 3997 4232 4411 5378 5385 5619 5703 5771 5785

URANIUM

14 52 53 120 142 143 151 166 167 209 213 217 233 252
 269 288 290 321 326 327 329 332 349 377 393 410 412 419
 448 449 461 472 490 492 511 514 530 564 572 588 614 640
 641 656 676 688 692 704 705 708 728 737 760 790 808 810
 819 824 828 841 866 879 880 909 920 946 952 971 1019
 1025 1042 1059 1076 1079 1090 1109 1122 1124 1134 1180
 1189 1190 1212 1226 1302 1325 1357 1361 1371 1389 1404
 1428 1429 1439 1442 1468 1477 1478 1494 1498 1527 1531
 1597 1607 1652 1699 1709 1723 1725 1727 1797 1817 1857
 1865 1901 1906 1960 1973 2437 2474 2550 2673 2754 2852
 3074 3391 3483 3755 3808 3958 3987 4198 4208 4381 5262
 5323 5328 5343 5439 5447 5551 5716 5732 5735 5765 5771
 5785 5788 5790 5867 5948 5953 5965 6012 6077

VANADIUM

47 68 80 81 89 107 140 165 205 230 257 301 305 409 419
 468 509 598 607 635 637 638 641 686 687 690 697 702 704
 752 758 760 781 797 810 821 824 849 851 883 893 895 941
 1001 1086 1088 1093 1097 1145 1150 1172 1226 1254 1263
 1289 1298 1313 1317 1319 1340 1442 1460 1471 1492 1526
 1565 1631 1665 1709 1710 1727 1749 1788 1911 1938 1965
 1980 2495 2499 2550 2601 2662 2689 2696 2707 2766 2950
 3344 3713 3793 4191 4206 4232 4270 4314 5410 5701 5958
 5970 5995 6003 6065

XENON

1412 1539 1891 2689



ACTIVATION ANALYSIS-ELEMENT DETERMINED

YTTERBIUM

115 267 439 588 641 676 705 713 1008 1021 1042 1055
 1226 1344 1709 1710 1835 1882 1945 1959 2689 2694 2735
 2931 3100 3384 3714 3780 5447 5771 5936 6043

YTTRIUM

103 115 227 267 291 544 631 659 662 688 704 760 767 879
 1014 1055 1340 1374 1403 1413 1474 1596 1649 1699 1710
 1725 1835 1945 1959 1978 2498 2550 2614 2657 2689 2735
 3100 3997 4214 6079

ZINC

33 34 54 55 56 63 68 78 83 103 116 138 140 141 166 167
 174 205 246 252 255 263 290 291 322 328 358 370 371 418
 419 442 454 504 508 509 513 544 584 586 588 606 614 622
 625 635 637 641 648 652 662 676 686 688 699 704 705 706
 707 710 714 726 767 789 790 799 804 810 815 824 829 830
 834 845 870 879 888 894 899 920 941 942 968 977 985 987
 1005 1042 1045 1063 1068 1069 1086 1089 1105 1107 1113
 1118 1123 1133 1134 1135 1138 1159 1165 1166 1190 1193
 1210 1211 1215 1223 1240 1244 1254 1263 1273 1275 1277
 1286 1307 1332 1344 1354 1373 1384 1411 1412 1432 1434
 1438 1441 1456 1466 1469 1471 1472 1477 1492 1515 1564
 1601 1613 1616 1645 1648 1670 1677 1678 1699 1703 1707
 1708 1709 1710 1723 1736 1737 1738 1745 1766 1767 1797
 1800 1815 1825 1828 1856 1920 1965 2124 2296 2308 2333
 2386 2430 2447 2508 2509 2523 2534 2539 2548 2550 2578
 2601 2613 2619 2638 2639 2640 2654 2665 2669 2673 2688
 2689 2690 2699 2717 2718 2721 2739 2766 2769 2776 2801
 2819 2848 2852 2870 2871 2876 2931 2950 2965 2999 3059
 3061 3075 3382 3383 3418 3475 3483 3485 3487 3708 3723
 3730 3731 3732 3740 3957 3961 4153 4232 4253 4263 4267
 4286 4291 4308 4315 4329 5307 5336 5345 5369 5370 5383
 5386 5390 5438 5448 5502 5619 5697 5703 5725 5728 5753
 5771 5785 5808 5864 5869 5924 5944 5950 5977 5981 5991
 5995 6003 6008 6012 6016 6037 6061 6067

ZIRCONIUM

9 24 83 103 166 167 176 212 232 398 507 509 588 614 641
 676 688 704 705 767 815 879 988 1022 1045 1045 1124
 1165 1173 1226 1375 1381 1410 1477 1481 1537 1646 1709
 1710 1765 1860 2498 2550 2689 2717 2735 2965 3363 3488
 4317 5500 5771 5936



ACTIVATION ANALYSIS-ELEMENT DETERMINED

RARE EARTHS

7	102	166	167	227	258	544	879	895	925	1015	1016	1045
1047	1187	1205	1235	1257	1323	1356	1404	1474	1477	1681		
1774	1839	2145	2327	2369	2550	2741	2763	2932	3376	3383		
3386	3395	3397	3732	3810	4219	4322	5347	5359	5500	5705		
5706	5707	5778	5862	5873	5961	5963	5964	6049	6077	6079		

LANTHANIDES

1205 1285



APPENDIX III



APPENDIX III

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ACTIVATION ANALYSIS-MATRIX ANALYZED

AIR, ATMOSPHERE

184 185 476 562 966 1004 1036 1081 1083 1266 1543 1569
1874 1924 2553 2693 2981 2998 5397 5967 6017 6058

ARCHAEOLOGICAL SPECIMENS

13 351 533 561 619 1032 1132 1301 1306 1376 1897 1926
2495 2575 2762 2945 3738 3998 4230 4328 5579 5729 5742
5788

ART

1504 1825 1834 2589 2694 3988 6031 6061

BIOLOGICAL, GENERAL, INCLUDING VIRUS

35 47 59 68 80 123 155 192 214 284 308 310 317 320 425
476 486 541 592 594 595 638 651 709 717 811 839 848 894
930 939 965 975 976 999 1056 1086 1088 1100 1105 1120
1125 1190 1195 1198 1224 1241 1288 1296 1308 1317 1370
1389 1436 1439 1461 1506 1534 1567 1577 1625 1644 1660
1665 1668 1669 1687 1702 1703 1704 1705 1706 1762 1769
1781 1806 1873 1892 1894 1895 1899 1963 1970 1977 1982
2124 2126 2422 2426 2445 2520 2554 2563 2571 2584 2585
2603 2642 2657 2673 2707 2718 2738 2759 2791 2792 2793
2946 2964 2969 2971 2985 2998 3060 3078 3086 3360 3468
3469 3482 3503 3507 3508 3728 3769 3985 3989 4002 4004
4194 4207 4221 4261 4267 4274 4315 4376 4377 5358 5596
5626 5699 5760 5774 5785 5790 5808 5847 5848 5874 5926
5945 5947 5979 5980 5982 5983 5985 5986 5987 5988 5993
5994 5995 5997 5998 6014 6016 6024 6047 6051

BIOLOGICAL, BLOOD

33 34 62 63 64 66 123 138 237 263 308 328 335 383 405
476 486 489 533 542 560 570 648 657 710 730 845 862 882
929 938 962 993 1020 1041 1086 1089 1141 1143 1206 1211
1241 1242 1276 1305 1384 1412 1421 1436 1463 1470 1702
1707 1708 1712 1748 1750 1766 1767 1824 1858 1948 1975
1982 2123 2365 2503 2508 2535 2551 2563 2689 2690 2695
2696 2733 2871 3061 3358 3503 3669 3757 3789 3808 3955
3956 3959 4314 5386 5502 5755 5770 5972 5981 6001 6002
6008 6067



ACTIVATION ANALYSIS-MATRIX ANALYZED

BIOLOGICAL, URINE

50 214 476 483 484 487 673 702 866 880 894 943 962 1221
 1241 1421 1702 1712 1858 1948 1964 2122 2534 2535 2551
 2558 2689 2821 3503 5382 5755 5953 5972 6001

BIOLOGICAL, OTHER FLUIDS

178 208 385 418 450 476 560 772 788 932 1141 1206 1287
 1392 1421 1645 1712 1747 1751 1824 1948 2125 2440 2535
 2558 2733 2977 3503 3710 3957 5416 5472 5929 5972 6005
 6009 6052 6055 6064

BIOLOGICAL, SOFT TISSUE, INCLUDES HAIR, NAILS, AND HOEFS

33 34 48 123 124 138 144 154 178 198 208 254 259 263
 308 310 317 328 333 335 374 414 442 481 483 484 504 512
 513 533 535 542 550 652 667 702 705 706 709 710 717 725
 819 844 848 852 883 911 944 1001 1041 1078 1086 1088
 1097 1100 1134 1172 1206 1225 1233 1250 1271 1276 1278
 1310 1311 1326 1392 1400 1411 1412 1421 1439 1442 1452
 1552 1563 1650 1692 1702 1712 1748 1752 1797 1858 1873
 1893 1914 1920 1925 1937 2121 2308 2403 2434 2455 2503
 2539 2546 2548 2551 2572 2588 2638 2639 2699 2719 2730
 2756 2776 2786 2789 2797 2819 2853 2871 2881 2938 2942
 2943 2999 3062 3098 3334 3388 3468 3503 3736 3745 3949
 3956 3982 4190 4227 4232 4240 4281 4283 4374 5366 5386
 5390 5393 5394 5435 5701 5727 5851 5869 5927 5944 5976
 5977 5999 6006 6007 6011 6012 6013 6015 6063 6069

BIOLOGICAL, BONE, TEETH

79 136 194 308 378 413 485 512 521 675 709 714 741 829
 830 856 968 1086 1100 1170 1332 1436 1439 1446 1457
 1512 1697 1752 1780 1800 1873 1980 1982 2565 2573 2629
 2633 2685 3503 3506 3725 3726 3958 3982 4319 6003 6004

BIOLOGICAL, FISH

164 165 409 757 758 1109 1172 1257 1395 1778 2668 2973
 5746 6023

BIOLOGICAL, SHELL FISH

164 165 409 723 1087 1094 1257 1277 1395 1401 1457 1781
 5726



ACTIVATION ANALYSIS-MATRIX ANALYZED

BIOLOGICAL, SEAWEED

164 165 409 810 1109 1727 2546 2732

BIOLOGICAL, LEAVES, NEEDLES

67 310 636 702 709 740 953 1086 1230 1234 1436 1930
2501 2773 2892 3391 3509 3791 4269 5370 5935

BIOLOGICAL, WOOD

333 1100 1114

BIOLOGICAL, OTHER BOTANICAL

62 63 65 66 160 317 454 459 520 533 553 571 636 702 709
723 740 773 804 810 811 866 880 933 934 1087 1108 1230
1274 1361 1484 1748 1749 1782 1805 1873 1970 1971 2347
2736 2876 2892 2929 3092 3341 3391 3508 3713 3714 3747
3791 3982 3991 4320 5327 5445 5571 5725 5924 5925 5978
5990 5991 6080

CELLULOSE • TEXTILES

317 333 402 573 717 1007 1057 1073 1087 1110 1114 1239
1472 1478 1583 1584 1888 2481 2493 2655 2803 5872

CEMENT

1917 2323 2934

CHROMATOGRAPHY AND ION EXCHANGE • PAPER, RESINS, REAGENTS, ETC,

511 1664 2141 4406 5407 5930

CLAYS

289 433 518 1385 1495 3370

COAL

57 113 477 612 1067 1414 1646 1798 1889 1898 2504 2507
2622 2933 2941 3076 3803 5621



ACTIVATION ANALYSIS-MATRIX ANALYZED

CORROSION PRODUCTS

97 482 4327

DETERGENTS

309

DRUGS

90 573 810 1077 1203 1205 1314 1746 2588 2648 2739 2805
4329 5751 5756

DUSTS

1036 1569 1606 1962

FOOD

339 476 588 676 699 702 705 707 709 935 963 1024 1057
1096 1788 1890 1913 1982 2563 2569 2689 2701 2736 2838
3092 3505 4323 5951 5984 5996 6024

FORENSIC, GENERAL

112 134 444 520 551 706 763 1031 1056 1149 1290 1689
2517 2603 2605 2607 2647 2673 2765 2958 2959 3486 3968
4006 5401 5710 6018 6020 6021 6027 6028 6030 6042

FORENSIC, HAIR AND FINGERNAILS

134 198 520 565 584 593 625 702 706 802 970 1422 1734
1736 1737 1928 2143 2517 2548 2570 2607 2765 2926 2958
3486 3708 4380 5358 5869 6019 6037 6038 6039 6040 6041

FORENSIC, POISONS

706 2517 2605 2607 2765 3486 5401

FORENSIC, GUNPOWDER RESIDUE

183 1034 1442 1732 2145 2464 2517 2605 2607 2765 2782
2790 2791 2792 2793 3065 3486 3504 5401 5750 6034 6035
6036



ACTIVATION ANALYSIS-MATRIX ANALYZED

FORENSIC, TRACE IDENTIFICATION

1035 1635 1715 1736 2144 2517 2605 2607 2645 2647 2648
2765 2782 2790 2791 2792 2793 2931 3486 3504 4263 4286
4329 5401 5543 6026 6029 6032 6033 6045 6048

GLASS

274 275 407 1117 1472 5566 5919 5933 5968 6033

INORGANIC COMPOUNDS (GENERAL)

79 82 130 196 200 205 313 437 438 499 514 519 631 659
670 702 712 824 825 845 986 1014 1028 1067 1072 1112
1116 1129 1202 1228 1248 1351 1404 1437 1510 1528 1711
1713 1720 1725 1774 1899 1939 1968 2052 2498 2543 2546
2845 2922 2989 4214 5499

IN-STREAM ANALYSIS

169 206 207 219 445 632 791 1055 1302 2006 2410 3753
4392 5578 5581 5748 5764

ISOTOPIIC ANALYSIS

53 100 110 114 157 160 233 256 261 288 321 332 347 421
448 449 517 530 737 770 782 784 841 926 1012 1019 1023
1059 1062 1070 1079 1101 1357 1362 1377 1415 1416 1427
1442 1457 1532 1576 1668 1678 1704 1706 1726 1811 1857
1865 1872 1906 1914 1921 2303 2473 2540 2543 2546 2618
2627 2634 2687 2695 2727 2731 2737 2754 3074 3081 3102
3711 3959 3965 4208 5295 5435 5449 6043 6073

LIQUIDS, EXCLUDING WATER AND SEA WATER

279 573 1107 1351 1361 1374 1442 1879 1882 2511 3374
3379 3393

METALS AND ALLOYS (GENERAL)

3 80 241 264 279 346 408 426 453 500 591 631 655 703
704 707 712 755 756 805 806 819 821 824 921 1030 1060
1067 1088 1093 1103 1113 1124 1190 1193 1321 1361 1438
1441 1460 1522 1604 1739 1849 2480 2550 2562 2662 2678
2686 2802 2922 2936 2949 2970 2978 3070 3090 3502 3746
3768 3977 4196 4197 4211 4215 5426 5772 5932 5968



ACTIVATION ANALYSIS-MATRIX ANALYZED

METEORITES AND TEKTITES

9 26 39 40 41 42 84 85 86 96 142 143 145 146 158 186
 187 199 209 212 217 226 268 269 410 411 412 434 436 439
 469 470 490 493 528 529 548 563 587 616 683 698 721 736
 768 776 778 779 817 964 988 1002 1010 1012 1017 1022
 1076 1101 1117 1122 1145 1155 1168 1169 1172 1173 1174
 1176 1187 1209 1210 1212 1214 1222 1251 1275 1297 1307
 1323 1356 1381 1386 1431 1433 1486 1493 1494 1498 1502
 1566 1571 1634 1693 1718 1719 1793 1813 1954 1959 2296
 2338 2474 2506 2509 2641 2735 2774 2901 3352 3467 3476
 3774 4253 4268 4290 5262 5307 5343 5365 5448 5591 5716
 5717 5718 5719 5720 5721 5759 5775 5884 5948 5958 6050

MINERALS

10 11 15 72 73 96 98 104 120 121 122 151 171 189 222
 224 225 239 240 249 250 354 360 366 380 393 397 429 461
 469 478 486 522 548 562 683 695 735 739 742 750 783 841
 924 941 1015 1016 1081 1082 1083 1092 1094 1107 1109
 1137 1178 1213 1216 1280 1293 1294 1356 1381 1393 1403
 1427 1431 1432 1433 1435 1454 1457 1458 1460 1466 1474
 1480 1495 1513 1518 1527 1528 1538 1549 1550 1566 1652
 1678 1817 1859 1863 1885 1906 1952 1970 1978 2318 2354
 2431 2526 2636 2644 2669 2684 2688 2690 2720 2747 3366
 3367 3375 3386 3387 3395 3414 3460 3501 3740 3766 4282
 5320 5325 5343 5350 5406 5592 5705 5706 5707 5767 5852
 5934 5949 5961 5962 5963 5965 6074

ORES

14 120 147 169 170 172 210 213 249 265 266 289 291 301
 329 349 380 445 479 546 554 562 612 616 621 630 665 677
 695 717 728 768 819 855 908 971 978 984 1011 1025 1047
 1081 1082 1083 1102 1111 1137 1150 1162 1190 1195 1196
 1280 1334 1340 1356 1374 1413 1435 1458 1521 1527 1550
 1551 1553 1554 1555 1556 1581 1611 1623 1651 1671 1677
 1857 1859 1886 1906 1955 1961 1978 2283 2348 2350 2444
 2499 2688 2690 2747 2801 2888 2904 2940 2965 2966 3063
 3076 3105 3342 3362 3371 3372 3373 3374 3376 3379 3385
 3395 3460 3462 3464 3473 3501 3739 3760 3803 3948 3976
 4005 4214 4307 4309 4311 5323 5356 5428 5551 5581 5761
 5767 5950 6054

ACTIVATION ANALYSIS-MATRIX ANALYZED

ORGANIC COMPOUNDS

80 192 205 323 403 498 519 591 696 702 709 711 827 839
863 871 895 921 928 986 1042 1045 1071 1072 1084 1096
1103 1112 1116 1138 1139 1218 1238 1259 1288 1437 1455
1456 1462 1472 1478 1479 1491 1509 1510 1519 1529 1534
1539 1595 1617 1655 1670 1694 1728 1743 1744 1745 1819
1870 1896 1902 2379 2433 2519 2524 2543 2562 2661 2794
2921 3033 3364 3365 3482 3505 3709 3716 3723 3729 3778
3954 3986 4205 4216 5326 5420 6085

ORGANOMETALLIC COMPOUNDS

2519 2543 3075 5357

PARTICLES

43 735 916 1036 1326 1439 1460 1606 1902 2976

PESTICIDES

702 1056 2790 3505 3791 5975

PETROLEUM AND DERIVATIVES

80 89 107 567 702 797 1088 1172 1254 1443 1535 1565
1572 1601 1738 1789 1815 1896 1899 2337 2452 2518 2619
2651 2705 2740 3027 3028 3365 3505 3752 4270 4285 5383
5510 5923 5970

PHOTOGRAPHIC FILM AND MATERIAL

334 738 3394

PLASTICS

21 37 105 605 702 860 942 977 1065 1088 1097 1492 1514
1519 1764 1831 2518 2657 2689 2711 2766 3781 3973 4209

PROCESS CONTROL

1586 1590 2666 5969

PROTEIN

134 709 1342 2129 5395 5405 6000 6001 6068



ACTIVATION ANALYSIS-MATRIX ANALYZED

QUARTZ

205 302 623 689 799 888 927 1065 1495 1505 1610 1655
2717 2728 3369 3759 5353 5402 5865 6062

REACTOR MATERIALS

234 349 419 708 717 726 735 974 1042 1171 1192 1204
1357 1902 5765

REAGENTS

300 1069 1072 1135 1136 1265 1636 1862 2518 2717 5335

REFRACTORIES AND CERAMICS

1540 2664 3488 6077

RUCKS

9 10 11 26 96 98 120 199 204 212 240 257 269 285 301
361 362 363 365 367 455 461 462 470 478 522 523 524 525
526 538 548 555 572 575 580 587 595 600 616 656 669 695
724 728 739 742 748 750 779 810 819 820 841 909 922 941
949 953 969 984 999 1002 1007 1022 1025 1047 1076 1080
1081 1082 1083 1094 1107 1109 1121 1125 1128 1145 1169
1180 1182 1185 1201 1209 1210 1213 1229 1293 1294 1297
1340 1356 1374 1383 1385 1393 1416 1419 1431 1432 1433
1445 1449 1454 1474 1480 1495 1518 1531 1537 1538 1550
1558 1559 1571 1585 1596 1615 1678 1693 1711 1718 1727
1812 1817 1835 1857 1885 1887 1899 1902 1911 1930 1953
1960 1970 2146 2283 2340 2348 2354 2437 2447 2453 2603
2636 2641 2669 2684 2694 2705 2720 2731 2735 2747 2750
2763 2839 2902 2965 2966 2991 3079 3081 3088 3089 3366
3367 3368 3371 3387 3395 3414 3461 3462 3470 3481 3501
3560 3774 3780 3790 3803 3961 3987 4192 4195 4242 4262
4278 4290 4305 4380 5322 5328 5406 5428 5436 5439 5449
5501 5713 5729 5731 5739 5743 5747 5767 5852 5867 5884
5934 5936 5939 5959 5960 6079

SEDIMENTS, MARINE

9 204 212 470 471 477 616 810 819 961 964 1002 1094
1128 1385 1727 1970 5771 5776



ACTIVATION ANALYSIS-MATRIX ANALYZED

SEMI-CONDUCTOR MATERIALS

149 216 457 473 509 544 583 702 707 785 838 888 892 894
1063 1118 1133 1135 1253 1286 1354 1438 1441 1823 1855
1862 1907 1930 2523 3350 3485 3514 3993 3995 4153 4321
5399 5437 5703 5928 5931 6053

SOILS & FERTILIZERS

67 98 175 329 454 616 804 810 848 904 905 991 1011 1131
1195 1196 1361 1419 1515 1642 1782 1794 1874 1896 1899
1970 2552 2553 2590 2603 2705 3005 3091 3093 3345 5697
5990

SPACE APPLICATIONS, LUNAR

253 545 658 996 1033 1052 1284 1721 1785 1912 2364 2684
3461 4198 4289 5261 5384 5440

STABLE TRACERS

1048 1799 5966 5967 5992 6010 6058

STEEL AND CAST IRONS

87 88 118 119 223 304 305 351 353 356 357 417 428 552
581 620 628 687 690 717 718 810 893 903 915 940 990
1026 1085 1093 1097 1102 1124 1201 1204 1274 1363 1367
1394 1426 1434 1453 1468 1473 1522 1537 1541 1589 1590
1598 1642 1711 1717 1740 1760 1773 1786 1821 1837 1844
1875 1910 1911 1950 1951 1956 2418 2429 2507 2526 2537
2542 2586 2596 2611 2615 2649 2652 2678 2764 2795 2846
2983 3357 3466 3560 3746 3750 3981 3997 4413 5238 5378
5380 5389 5408 5450 5451 5452 5708 5766 6086

SURFACE ANALYSIS

29 423 1915 2562 2948 3070 3992 4000 5543 6066

THIN FILMS

508 654 1060 1156 1380 1496 1899 2658 3064 3126 3973
3992



ACTIVATION ANALYSIS-MATRIX ANALYZED

WATER

54 55 56 125 126 206 207 250 290 300 333 686 735 843
 853 868 937 959 981 1008 1021 1027 1062 1070 1109 1129
 1135 1181 1190 1217 1237 1255 1266 1294 1351 1361 1435
 1497 1528 1532 1725 1758 1814 1857 1874 1906 1973 1979
 2157 2540 2543 2551 2656 2665 2666 2673 2689 2693 2717
 2800 2852 2873 2930 3084 3483 3808 3962 3965 3969 4258
 4272 4302 4412 5749 5858 5919 5920 6016

WATER, SEA

164 235 236 422 475 477 492 586 614 723 810 1125 1127
 1266 1345 1385 1402 1457 1688 1727 1874 1906 1945 2157
 2511 2673 2693 2790 2791 2792 2793 2848 2984 3960 3969
 4219 4244 4255 4291 4381 5359 5387 5397 5777 5873

WELL LOGGING

695 780 786 1061 1430 1554 1555 1559 1680 1683 1684
 1685 1686 1772 1822 1843 3462 4252 5552 5554 5555 5577

LITHIUM AND ITS ALLOYS AND COMPOUNDS

467 869 1351 1568 2369 2726 3986

AMMONIUM COMPOUNDS AND ALKALI METALS AND THEIR ALLOYS AND COMPOUNDS (EXCLUDING LITHIUM)

93 131 133 460 635 708 729 852 869 1123 1190 1197 1281
 1292 1330 1424 1514 1560 1761 1801 1816 1900 2596 2598
 2726 2734 2758 2804 3085 3393 4209 4386 5341 5410 5422
 6044

BERYLLIUM AND ITS ALLOYS AND COMPOUNDS

45 46 49 58 69 74 105 108 109 291 314 391 472 578 596
 623 637 640 789 814 849 850 983 1043 1081 1083 1104
 1177 1189 1191 1226 1235 1263 1318 1347 1351 1361 1429
 1442 1528 1637 1710 1730 1741 1816 1861 1871 1904 2505
 2549 2777 3073 3727 3976 5593

MAGNESIUM AND ITS ALLOYS AND COMPOUNDS

22 300 635 899 1190 1231 1274 1351 1398 1483 1801 2798
 3357 3488 3981 4201 5941



ACTIVATION ANALYSIS-MATRIX ANALYZED

CALCIUM, STRONTIUM AND BARIUM AND THEIR ALLOYS AND COMPOUNDS

635 1188 1466 1725 1726 1816 1872 2511 3396 4276 5353

BORON AND ITS ALLOYS AND COMPOUNDS

1136 1816 3369 4260

ALUMINUM

4 6 7 80 102 103 161 166 167 252 300 317 349 358 371
398 416 417 432 531 533 544 578 662 688 708 726 735 767
781 790 806 812 814 815 821 834 851 866 879 880 881 883
895 920 979 982 1042 1088 1097 1098 1099 1226 1245 1264
1273 1325 1338 1339 1398 1406 1420 1442 1469 1473 1526
1564 1591 1598 1618 1632 1700 1710 1723 1795 1804 1856
1901 1929 1960 1974 2358 2550 2559 2579 2597 2601 2628
2654 2683 2769 2950 3059 3382 3396 3721 3722 3724 3771
3791 3797 3992 4203 4298 5369 5409 5432 5729 5863 5865
5919 5921 5922 6024

ALUMINUM ALLOYS AND COMPOUNDS

78 83 161 234 238 384 400 451 533 806 823 853 864 899
987 989 1093 1099 1140 1167 1190 1220 1274 1725 2865
2927 2956 3487 4211 5353

TITANIUM AND ITS ALLOYS AND COMPOUNDS

51 75 81 291 319 1067 3357 3783 3799 3981 5431 5781
6065

ZIRCONIUM AND ITS ALLOYS AND COMPOUNDS

24 176 231 252 287 291 319 325 375 494 641 726 760 762
814 821 851 879 895 899 967 1003 1065 1067 1097 1190
1236 1309 1377 1410 1442 1471 1537 1573 1574 1578 1612
1642 1646 1699 1709 1765 1931 2381 2550 2970 3721 3996
4000 5177 5515 5517 5938

HAFNIUM AND ITS ALLOYS AND COMPOUNDS

176 232 507 1375 1481 1537 1765 2381 5938



ACTIVATION ANALYSIS-MATRIX ANALYZED

NI OBIUM AND ITS ALLOYS AND COMPOUNDS

51 105 265 266 319 641 896 910 1102 1165 1487 1709 1759
1829 1840 1966 1983 2502 3059 3346 5781 5782 5786

TANTALUM AND ITS ALLOYS AND COMPOUNDS

51 912 1045 1102 1165 1232 1442 2502

CHROMIUM, VANADIUM AND MANGANESE AND THEIR ALLOYS AND
COMPOUNDS

130 585 1289 1333 1501 1570 2473 5385 6065

MOLYBDENUM AND ITS ALLOYS AND COMPOUNDS

205 331 1760 1803 2381 3990 5321 5938 6071

TUNGSTEN AND ITS ALLOYS AND COMPOUNDS

116 205 242 955 980 1045 1227 1283 1340 1592 1597 1842
2381 3775 3810 3990 4231 5444 5732 5740 5938 6071

IRON AND ITS ALLOYS AND COMPOUNDS (EXCLUDING STEELS AND
CAST IRONS)

4 5 8 118 119 130 140 166 167 179 271 319 401 443 452
490 502 516 537 544 578 662 688 744 767 851 879 896 906
1045 1067 1125 1150 1219 1226 1267 1298 1313 1339 1344
1375 1442 1621 1770 1875 1910 1938 1965 2358 2644 2658
2744 3785 3975 4189 4322 5336 5349 5430 5728 5954

COBALT AND ITS ALLOYS AND COMPOUNDS

130 545 823 1156 1167 1828

NICKEL AND ITS ALLOYS AND COMPOUNDS

28 544 635 662 852 892 1009 1124 1167 1262 1442 1613
1827 2658 3976 5712

CUPPER AND ITS ALLOYS AND COMPOUNDS

130 153 384 589 754 851 956 995 1004 1067 1190 1299
1375 1378 1477 1728 1763 1896 2537 2550 2887 3418 4277
4308 5403 5415



ACTIVATION ANALYSIS-MATRIX ANALYZED

ZINC AND ITS ALLOYS AND COMPOUNDS

31 32 44 117 141 180 202 229 272 360 584 608 635 798
832 957 1000 1018 1398 1633 1689 1763 2358 2525 2683
2723 2724 2725 2796 3084 3994 4303 5447 5922 5955

GALLIUM, INDIUM AND THALLIUM AND THEIR ALLOYS AND COMPOUNDS

141 229 622 825 867 894 957 1005 1045 1068 1159 1190
1648 1675 2358 2721 3730 3731 4217 4321 5500 5703 5753
5928 6024

CADMIUM AND ITS ALLOYS AND COMPOUNDS

30 31 141 832 1331 1525 1936 2625

SILVER, GOLD AND MERCURY AND THEIR ALLOYS AND COMPOUNDS

105 130 211 344 544 589 662 774 997 1095 1106 1111 1132
1599 1641 1787 5704

PLATINUM AND ITS ALLOYS AND COMPOUNDS

2 135 205 221 262 364 451 601 727 774 792 907 1146 1147
1183 1184 1344 2644 3473 3810 5940

RHENIUM, RUTHENIUM, OSMIUM, RHODIUM, IRIDIUM AND PALLADIUM
AND THEIR ALLOYS AND COMPOUNDS

135 221 344 774 1119 1260 1425 1539 2515 2644 2671 3530
5311 5363 5364 5868

CARBON, GRAPHITE, DIAMOND

115 139 163 241 291 468 607 752 819 848 945 946 992 994
1090 1161 1201 1269 1319 1408 1478 1618 1653 1725 1760
1787 1818 1839 1860 2306 2717 2772 2865 3474 3995 5863
5919 6071



ACTIVATION ANALYSIS-MATRIX ANALYZED

SILICON AND ITS ALLOYS AND COMPOUNDS (EXCLUDING QUARTZ)

12 105 149 181 193 244 245 246 255 279 319 322 371 379
390 473 491 509 544 602 606 623 662 803 805 818 831 853
864 869 870 881 887 888 892 894 913 922 1013 1091 1118
1121 1142 1151 1156 1166 1194 1207 1208 1223 1272 1304
1438 1441 1546 1547 1561 1587 1588 1616 1742 1760 1820
1831 1855 1899 1907 1930 1974 2358 2376 2386 2523 2578
2712 2717 2923 3361 3383 3384 3514 4224 4347 5353 5399
5429 5619 5787 5793 5931 6053 6072

GERMANIUM AND ITS ALLOYS AND COMPOUNDS

248 370 465 474 501 544 662 689 818 892 1045 1156 1243
1244 1291 1442 1548 1679 1862 1907 2154 2430 2497 2578
2712 2717 3485 3732 3993 4321 5330 5752 5769 6053 6072

TIN AND ITS ALLOYS AND COMPOUNDS

141 319 1018 1976 2358 4298

LEAD AND ITS ALLOYS AND COMPOUNDS

105 130 141 249 384 424 608 623 692 775 798 886 950
1064 1066 1074 1500 1533 1598 1763 1830 1841 1856 1901
1930 2154 2643 2654 2715 2717 3396 3788 3804 5344 5345
5381 5398

PHOSPHORUS AND PHOSPHATES

174 902 919 936 954 1344 2680 2721 4191 4293 5438

ARSENIC AND ANTIMONY AND THEIR ALLOYS AND COMPOUNDS

270 544 662 852 985 1441 1570 1754 2640 2713 2721 2878
4321 5787 5928

BISMUTH AND ITS ALLOYS AND COMPOUNDS

215 544 608 662 777 798 894 1320 1441 1542 1672 1760
1763 1969 2610 2612 2613 2812 3396

SULFUR

148 387 431 607 753 1654 1862



ACTIVATION ANALYSIS-MATRIX ANALYZED

SELENIUM AND TELLURIUM AND THEIR ALLOYS AND COMPOUNDS

330 544 662 674 858 894 1215 1240 1246 1247 1300 1373
1520 1603 1628 1725 1760 1848 2775 2813 4254 4299 4300
5730

RARE EARTHS AND THEIR ALLOYS AND COMPOUNDS (INCLUDING SC + Y)

115 188 225 227 228 258 267 343 395 396 544 604 662 948
958 960 1008 1011 1015 1016 1021 1115 1195 1196 1199
1324 1329 1344 1403 1413 1648 1722 1802 1803 1882 1957
1985 2480 2496 2621 2920 2932 3100 3397 3770 3810 4226
4250 4322 4325 5308 5347 5778 5964

HALOGENS

243 923 1725 2982

NOBLE GASES

1004 1539 1543 4301

URANIUM, THORIUM AND PLUTONIUM AND THEIR ALLOYS AND COMPOUNDS

52 105 151 233 252 327 346 737 771 813 822 824 952 973
998 1019 1038 1059 1079 1109 1256 1318 1357 1391 1428
1442 1607 1614 1656 1681 1682 1725 1730 1803 1832 1833
1857 1865 1921 2441 2480 2496 2714 2741 2752 2753 2754
2836 2844 2870 2882 3074 3661 3811 3841 3964 4208 4249
4391 5368 5728 5735 5765 5863 6056 6057

FISSION PRODUCTS

326 634 1543 4347 6057



APPENDIX IV



APPENDIX IV

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ACTIVATION ANALYSIS-TECHNIQUE USED

REACTOR - THERMAL NEUTRON (N,Y)

2	4	5	6	7	9	10	11	12	13	14	15	21	22	24	26	28	30	31	32
33	34	35	39	40	41	42	43	44	47	48	50	51	54	55	56	57	59		
61	62	63	64	65	66	67	68	69	73	74	78	79	80	81	83	84	85		
86	88	89	90	93	96	97	100	101	102	103	104	107	115	116					
117	120	121	122	123	124	126	133	134	136	137	138	139	140						
141	142	143	144	145	146	147	148	149	151	154	158	161	162						
163	164	165	166	167	171	172	174	176	178	179	180	183	186						
187	193	194	197	198	200	208	209	210	211	212	214	215	216						
217	221	222	223	225	226	231	232	234	235	236	237	238	239						
240	242	243	244	245	246	248	249	250	254	255	261	262	263						
264	265	266	267	268	269	270	279	284	286	287	288	289	290						
291	300	302	304	305	310	317	319	321	322	323	325	326	328						
329	330	331	332	334	347	349	351	352	353	354	356	357	358						
360	361	362	363	364	366	367	370	371	375	376	378	379	386						
387	390	393	395	396	397	398	400	405	407	408	409	410	411						
412	414	416	418	419	421	422	424	428	429	431	432	433	434						
436	437	438	439	442	444	448	449	450	451	452	454	459	460						
461	462	465	467	468	469	470	471	472	473	474	475	476	477						
478	481	482	483	484	485	486	487	488	489	490	492	493	494						
501	502	504	505	506	507	508	509	511	512	513	514	516	517						
520	521	522	523	524	525	526	531	533	535	537	538	539	541						
542	543	544	545	548	550	551	552	553	560	561	562	564	565						
566	570	571	572	573	574	575	581	583	584	585	586	587	588						
590	592	593	595	598	600	601	602	604	605	606	607	608	609						
610	614	619	620	622	625	630	634	636	637	638	640	641	648						
651	652	657	659	662	663	665	667	670	673	674	675	676	677						
681	683	686	687	688	689	690	692	698	699	701	702	705	706						
707	708	709	710	711	713	714	716	717	718	721	723	726	727						
728	729	730	735	736	738	739	740	741	742	752	753	754	755						
757	758	760	763	765	767	768	772	773	774	775	776	777	778						
779	781	788	789	790	792	797	798	799	802	803	804	805	806						
808	810	812	813	815	817	819	820	821	822	823	824	825	826						
829	830	831	832	834	838	841	842	843	844	845	846	848	849						
850	851	852	853	854	856	858	864	866	867	868	869	871	877						
879	880	881	882	883	887	888	896	902	903	906	907	909	910						
911	914	915	916	918	919	920	922	923	927	928	929	932	933						
934	935	937	938	939	940	941	942	943	944	945	946	948	950						
951	952	953	954	955	956	957	959	962	963	966	968	970	971						
973	974	975	976	977	979	980	982	984	985	986	987	988	989						
990	991	992	993	994	995	997	998	999	1000	1001	1002	1003							
1004	1005	1007	1008	1009	1010	1011	1012	1015	1016	1018									
1019	1020	1021	1022	1024	1025	1027	1028	1030	1031	1032									
1034	1035	1036	1038	1041	1042	1043	1045	1047	1056	1057									
1059	1060	1063	1064	1066	1068	1069	1073	1074	1075	1076									
1077	1078	1080	1085	1086	1087	1088	1089	1090	1092	1094									
1095	1096	1097	1098	1099	1100	1102	1105	1107	1108	1109									
1110	1112	1114	1117	1118	1119	1121	1122	1123	1124	1125									



ACTIVATION ANALYSIS-TECHNIQUE USED

REACTOR - THERMAL NEUTRON (N, Y) (CONTINUED)

1127	1129	1131	1132	1133	1134	1135	1137	1138	1139	1140
1141	1143	1145	1146	1147	1150	1153	1155	1156	1159	1162
1165	1166	1167	1169	1170	1171	1173	1174	1176	1177	1180
1181	1182	1183	1184	1185	1187	1188	1189	1190	1191	1192
1193	1195	1196	1197	1199	1200	1201	1203	1204	1205	1206
1207	1208	1209	1210	1211	1212	1214	1215	1216	1218	1220
1221	1222	1223	1224	1225	1226	1227	1228	1230	1231	1233
1234	1235	1236	1237	1239	1240	1241	1242	1243	1244	1245
1246	1247	1250	1251	1254	1257	1260	1261	1262	1263	1264
1265	1266	1269	1271	1272	1273	1274	1275	1277	1278	1279
1281	1283	1285	1286	1287	1288	1289	1290	1291	1292	1293
1299	1300	1302	1306	1307	1310	1311	1313	1314	1317	1319
1320	1323	1324	1325	1326	1331	1332	1333	1340	1342	1347
1349	1351	1353	1356	1357	1361	1373	1376	1378	1380	1381
1382	1383	1384	1385	1386	1389	1391	1392	1395	1396	1398
1400	1401	1402	1404	1406	1409	1410	1411	1412	1416	1419
1420	1421	1425	1426	1428	1429	1431	1432	1433	1434	1436
1438	1439	1441	1443	1446	1449	1452	1454	1455	1456	1457
1458	1460	1462	1463	1466	1468	1469	1470	1471	1472	1473
1474	1477	1478	1479	1480	1484	1487	1491	1492	1493	1494
1495	1496	1497	1500	1502	1504	1505	1510	1512	1515	1517
1518	1519	1520	1521	1525	1526	1527	1529	1531	1533	1534
1537	1538	1539	1540	1541	1542	1543	1548	1549	1550	1551
1552	1553	1554	1555	1556	1558	1563	1564	1565	1566	1568
1569	1570	1571	1572	1573	1574	1576	1577	1578	1581	1583
1584	1585	1587	1588	1592	1595	1596	1597	1601	1603	1606
1607	1610	1612	1613	1614	1615	1616	1617	1618	1621	1628
1631	1632	1633	1634	1635	1636	1641	1644	1645	1647	1648
1649	1652	1653	1654	1655	1658	1659	1660	1661	1664	1665
1671	1672	1673	1676	1677	1678	1679	1681	1682	1689	1692
1693	1694	1697	1699	1702	1703	1705	1706	1707	1708	1709
1710	1711	1712	1715	1717	1719	1722	1723	1725	1726	1727
1729	1731	1732	1734	1736	1737	1741	1743	1744	1745	1746
1747	1748	1749	1750	1751	1752	1755	1759	1760	1761	1762
1763	1766	1767	1769	1770	1774	1780	1781	1782	1783	1785
1786	1787	1788	1789	1790	1791	1792	1793	1794	1795	1797
1799	1800	1803	1805	1806	1812	1813	1817	1818	1819	1820
1821	1824	1825	1827	1828	1829	1830	1832	1833	1834	1835
1839	1840	1841	1842	1844	1845	1848	1855	1856	1857	1858
1862	1863	1870	1872	1874	1878	1881	1882	1886	1888	1890
1891	1892	1893	1894	1895	1897	1901	1902	1904	1906	1907
1909	1913	1914	1918	1920	1921	1924	1925	1926	1929	1930
1931	1936	1937	1938	1945	1948	1952	1953	1957	1958	1959
1960	1962	1964	1965	1966	1969	1970	1971	1973	1974	1975
1976	1977	1980	1982	1983	1984	1985	2052	2121	2122	2123
2141	2144	2145	2146	2154	2157	2251	2283	2296	2306	2308



ACTIVATION ANALYSIS-TECHNIQUE USED

REACTOR - THERMAL NEUTRON (N, Y) (CONTINUED)

2327	2333	2337	2340	2347	2350	2358	2365	2369	2376	2386
2403	2422	2426	2430	2431	2437	2440	2441	2444	2445	2447
2455	2464	2473	2474	2480	2481	2493	2495	2496	2497	2499
2502	2503	2507	2508	2509	2511	2515	2517	2523	2525	2533
2534	2535	2537	2539	2540	2546	2548	2550	2551	2552	2553
2558	2559	2563	2565	2571	2573	2578	2579	2584	2590	2595
2597	2601	2605	2607	2610	2611	2612	2613	2614	2619	2621
2633	2636	2638	2639	2640	2641	2643	2644	2645	2651	2654
2657	2658	2659	2660	2663	2664	2665	2669	2671	2673	2680
2683	2685	2687	2688	2689	2690	2694	2695	2696	2699	2701
2707	2711	2713	2714	2715	2717	2718	2721	2722	2724	2725
2727	2728	2730	2731	2732	2733	2735	2737	2739	2740	2741
2744	2748	2750	2752	2753	2754	2756	2759	2762	2766	2769
2772	2773	2775	2776	2782	2786	2789	2790	2791	2792	2793
2794	2795	2797	2800	2801	2804	2805	2806	2819	2821	2836
2838	2839	2840	2844	2845	2846	2848	2849	2852	2853	2865
2870	2871	2873	2876	2878	2881	2882	2887	2888	2889	2892
2902	2904	2920	2921	2922	2923	2926	2927	2929	2930	2931
2932	2936	2938	2942	2943	2945	2950	2957	2958	2963	2964
2969	2970	2973	2976	2977	2978	2979	2981	2982	2984	2989
2991	2999	3005	3027	3059	3060	3061	3062	3065	3079	3081
3084	3091	3092	3093	3098	3105	3126	3328	3341	3342	3344
3345	3350	3352	3358	3360	3362	3363	3365	3366	3367	3368
3369	3370	3371	3372	3382	3383	3384	3386	3387	3388	3391
3394	3395	3396	3397	3411	3414	3418	3464	3466	3467	3469
3470	3473	3475	3476	3481	3482	3483	3485	3486	3488	3489
3494	3498	3504	3514	3530	3661	3669	3708	3709	3710	3713
3714	3716	3723	3724	3725	3726	3727	3730	3731	3732	3736
3738	3739	3740	3745	3755	3757	3759	3760	3766	3769	3770
3774	3775	3778	3780	3785	3788	3789	3791	3797	3804	3808
3810	3811	3841	3949	3954	3955	3956	3957	3958	3959	3960
3961	3964	3979	3982	3988	3989	3990	3991	3993	3994	3998
4153	4190	4191	4192	4194	4195	4196	4201	4202	4203	4207
4208	4216	4219	4224	4230	4231	4232	4240	4242	4244	4249
4250	4253	4254	4255	4258	4262	4263	4267	4268	4269	4270
4272	4274	4278	4281	4283	4284	4285	4286	4290	4291	4293
4296	4298	4299	4301	4302	4303	4305	4306	4307	4308	4309
4310	4311	4314	4315	4319	4321	4322	4325	4328	4329	4347
4374	4381	4388	4406	5262	5295	5307	5320	5323	5326	5327
5328	5335	5336	5338	5341	5343	5344	5345	5347	5349	5350
5357	5358	5359	5363	5364	5365	5366	5368	5369	5370	5378
5381	5382	5385	5386	5390	5393	5394	5395	5397	5398	5399
5401	5402	5405	5406	5407	5408	5410	5415	5422	5428	5436
5438	5439	5444	5447	5448	5449	5472	5409	5500	5502	5510
5515	5517	5547	5551	5571	5577	5579	5591	5592	5619	5697
5699	5701	5703	5704	5705	5706	5707	5712	5713	5716	5717



ACTIVATION ANALYSIS-TECHNIQUE USED

REACTOR - THERMAL NEUTRON (N, Y) (CONTINUED)

5718	5719	5721	5725	5726	5727	5728	5729	5730	5731	5732
5735	5742	5743	5746	5747	5749	5750	5751	5753	5755	5756
5759	5760	5761	5765	5766	5770	5771	5775	5777	5779	5784
5785	5786	5787	5788	5790	5792	5793	5808	5851	5858	5860
5862	5864	5868	5872	5873	5874	5919	5922	5924	5925	5926
5927	5928	5929	5931	5932	5933	5934	5935	5936	5939	5940
5941	5942	5944	5948	5949	5951	5953	5955	5958	5959	5960
5961	5962	5963	5964	5965	5967	5969	5970	5972	5975	5976
5977	5981	5983	5984	5991	5992	5994	5995	5996	5999	6000
6001	6002	6003	6005	6006	6007	6008	6010	6011	6012	6013
6015	6016	6017	6023	6024	6031	6039	6040	6043	6044	6047
6048	6050	6052	6054	6055	6058	6061	6062	6063	6064	6067
6068	6069	6071	6073	6074	6077	6079	6080	6081	6085	6086

REACTOR - FAST (N,P) (N,A) (N,N1) (N,2N)

140	157	314	341	491	520	530	681	703	707	711	716	807	808
810	811	818	828	843	854	877	897	951	1157	1161	1167	1198	
1327	1334	1340	1357	1374	1378	1403	1413	1415	1424	1427			
1439	1455	1479	1546	1547	1620	1639	1659	1717	1731	1814			
1902	1907	1911	1965	2595	2623	2676	3059	3064	3361	3489			
3494	3560	3965	3986	3997	4221	4227	5698	5759					

REACTOR - EPITHERMAL

140	520	807	818	828	862	1186	1439	1506	1659	1731	1910
2625	3385	3494	3975	3987	3998	4300	5848				

ISOTOPE SOURCE - NEUTRONS

1	20	37	52	53	82	130	135	147	188	203	213	219	227	228
229	230	233	234	258	259	272	301	321	327	333	335	343	344	
377	402	445	555	589	612	665	717	783	791	810	827	837	841	
904	905	924	949	958	1055	1056	1061	1093	1111	1202	1259			
1267	1295	1298	1315	1329	1336	1337	1357	1393	1423	1430				
1440	1513	1544	1558	1559	1586	1591	1630	1637	1642	1651				
1698	1740	1754	1758	1772	1822	1843	1857	1865	1873	1879				
1880	1941	1961	2364	2698	2940	2956	2966	2987	3033	3078				
3366	3373	3374	3375	3376	3399	3411	3465	3489	3758	3948				
3962	3996	4198	4215	4276	4289	4294	5325	5356	5501	5566				
5581	5716	5772	5854	5857										



ACTIVATION ANALYSIS-TECHNIQUE USED

GENERATOR - OR SEALED TUBE

74 77 131 155 199 204 253 271 285 316 324 376 426 500
 518 519 546 567 591 611 618 621 628 629 637 638 658 678
 679 680 695 696 712 716 762 810 841 898 917 921 936 960
 961 972 977 996 1017 1033 1046 1052 1054 1056 1067 1075
 1084 1103 1104 1115 1116 1152 1172 1217 1229 1248 1258
 1284 1294 1297 1304 1309 1353 1394 1397 1399 1407 1414
 1437 1439 1444 1450 1453 1489 1508 1514 1522 1530 1535
 1589 1593 1602 1619 1626 1640 1656 1666 1667 1670 1685
 1698 1701 1721 1738 1739 1753 1773 1798 1802 1804 1813
 1815 1859 1864 1875 1887 1889 1896 1899 1900 1905 1912
 1922 1939 1940 1950 1954 1955 1956 1957 1968 1978 1981
 2129 2297 2354 2384 2410 2418 2433 2434 2453 2498 2504
 2505 2506 2512 2518 2519 2524 2526 2527 2542 2549 2561
 2567 2568 2569 2580 2586 2591 2596 2598 2608 2615 2617
 2620 2622 2649 2666 2667 2674 2678 2705 2707 2720 2734
 2749 2761 2764 2778 2796 2798 2802 2806 2849 2933 2975
 2983 2987 3058 3059 3063 3073 3074 3075 3076 3085 3087
 3088 3090 3335 3355 3357 3364 3366 3411 3460 3487 3495
 3496 3497 3502 3553 3717 3718 3746 3751 3753 3781 3790
 3794 3796 3810 3973 3976 3980 3981 4005 4205 4214 4228
 4252 4260 4261 4273 4282 4392 5261 5321 5322 5332 5339
 5353 5380 5383 5384 5389 5403 5409 5416 5420 5431 5432
 5443 5445 5450 5451 5452 5708 5711 5714 5720 5739 5757
 5764 5772 5776 5778 5780 5781 5782 5784 5884 5920 5923
 5978 6014 6022 6059 6065 6075

ACCELERATOR - NEUTRONS

16 17 23 91 92 98 108 109 111 113 125 175 189 205 274
 275 304 316 376 403 413 520 549 574 580 596 635 639 647
 660 732 733 780 841 863 872 875 876 934 965 967 1014
 1026 1072 1075 1213 1319 1355 1407 1442 1444 1489 1509
 1598 1623 1691 1808 1836 1838 1854 1917 1940 1963 2323
 2510 2661 2668 2684 2686 2697 2774 2947 3461 3495 3496
 3497 3752 3768 3791 3979 4198 4202

PHOTON ACTIVATION (INCLUDES ISOTOPE SOURCE)

38 45 46 49 58 74 75 169 170 206 207 339 351 380 554
 631 637 669 703 814 855 861 978 983 1006 1014 1043 1062
 1075 1081 1083 1106 1136 1160 1163 1175 1178 1238 1263
 1270 1334 1340 1375 1435 1444 1475 1481 1501 1560 1597
 1609 1646 1764 1765 1778 1816 1849 1857 1861 1871 1926
 1935 2126 2272 2298 2303 2318 2348 2495 2554 2555 2697
 2758 2777 2965 2972 3072 3077 3346 3379 3474 3486 3495



ACTIVATION ANALYSIS-TECHNIQUE USED

PHOTON ACTIVATION (INCLUDES ISOTOPE SOURCE) (CONTINUED)

3727 3729 3771 3775 3799 3803 3810 3970 3979 4189 4211
 4277 4386 5308 5311 5319 5379 5430 5442 5520 5621 5740
 5784 5870 5950 5954 5977 5979 6070

CHARGE PARTICLE (INCLUDES ISOTOPE SOURCE)

4 8 29 87 105 118 119 153 160 181 184 185 201 274 275
 314 346 381 382 383 384 385 401 417 423 443 455 479 495
 497 498 499 520 578 623 637 638 703 734 744 771 839 855
 912 913 1013 1023 1065 1075 1091 1101 1148 1151 1194
 1219 1232 1256 1280 1312 1318 1377 1408 1444 1450 1483
 1486 1490 1561 1599 1604 1668 1704 1720 1742 1778 1811
 1823 1831 1836 1837 1915 1935 1951 2254 2259 2298 2381
 2429 2505 2531 2555 2618 2628 2629 2632 2634 2652 2673
 2697 2712 2948 2949 3070 3071 3089 3351 3403 3411 3495
 3711 3721 3722 3767 3777 3783 3791 3976 3977 3979 3995
 4000 4193 4197 4198 4209 4211 4226 5177 5238 5330 5372
 5429 5435 5442 5543 5580 5752 5768 5769 5773 5921 5938
 5957 6004 6053 6056 6066 6072

SECONDARY PARTICLE

110 196 256 391 654 655 756 770 782 784 867 868 981
 1070 1071 1075 1082 1158 1252 1330 1450 1528 1532 1609
 1675 1713 1730 1801 1979 2385 2543 2562 2661 2726 3965
 3985 3992

NON-DESTRUCTIVE

2 13 17 21 23 24 29 35 37 38 43 45 46 48 49 51 52 53 54
 58 59 73 75 81 82 88 90 97 98 100 102 104 105 107 108
 109 110 113 114 118 119 120 125 130 131 135 136 140 144
 147 148 151 153 155 163 169 170 171 175 179 184 185 188
 189 198 199 204 205 206 207 213 215 216 219 227 228 229
 232 233 237 238 239 240 246 252 253 259 266 267 268 271
 272 274 275 291 300 301 304 305 319 323 325 330 331 333
 339 343 344 346 349 351 357 358 371 375 380 381 382 386
 387 393 396 397 402 403 405 407 408 413 414 417 423 426
 428 433 444 445 454 455 460 461 462 468 472 476 479 486
 487 488 489 491 494 499 500 512 514 516 518 519 520 521
 523 524 530 533 538 546 549 552 554 555 561 562 566 567
 573 574 578 580 581 584 589 590 591 592 594 596 598 604
 605 606 607 608 612 618 619 620 621 623 625 628 629 630
 631 632 635 640 641 654 657 658 659 662 665 667 669 670
 686 687 690 695 696 702 703 707 709 711 712 713 716 717



ACTIVATION ANALYSIS-TECHNIQUE USED

NON-DESTRUCTIVE (CONTINUED)

725	726	732	733	738	739	744	752	753	754	755	756	758	762
763	770	771	774	775	782	783	784	791	797	798	803	806	807
808	810	811	814	818	819	822	823	831	839	842	843	844	845
850	851	852	853	854	855	861	862	863	868	882	887	888	902
904	905	908	912	913	914	915	916	921	924	927	932	933	934
936	938	939	940	943	946	948	949	950	951	954	955	956	957
958	959	960	961	966	972	974	975	977	978	981	982	983	986
987	989	990	991	992	993	994	996	1003	1004	1005	1006		
1007	1008	1009	1011	1013	1014	1017	1019	1021	1023	1024			
1025	1026	1029	1030	1031	1032	1033	1035	1036	1052	1054			
1055	1056	1059	1060	1061	1062	1063	1064	1065	1066	1067			
1068	1070	1071	1072	1073	1074	1075	1077	1078	1079	1081			
1082	1083	1084	1088	1090	1092	1093	1095	1097	1098	1099			
1103	1104	1106	1110	1111	1112	1114	1115	1116	1131	1132			
1136	1140	1141	1143	1152	1153	1158	1160	1161	1162	1172			
1175	1178	1195	1196	1197	1199	1200	1202	1203	1204	1213			
1216	1217	1218	1219	1220	1225	1227	1228	1229	1233	1238			
1239	1245	1248	1251	1252	1254	1256	1258	1259	1260	1263			
1267	1269	1270	1279	1280	1283	1284	1289	1290	1294	1295			
1297	1298	1302	1304	1306	1309	1311	1314	1315	1318	1336			
1337	1351	1355	1357	1361	1374	1375	1376	1377	1380	1386			
1389	1392	1393	1394	1395	1396	1397	1398	1399	1402	1403			
1407	1413	1414	1415	1419	1420	1424	1427	1429	1435	1452			
1453	1455	1456	1460	1466	1468	1472	1473	1477	1481	1483			
1487	1491	1492	1495	1496	1500	1501	1504	1505	1506	1509			
1510	1513	1514	1517	1519	1521	1522	1527	1530	1531	1532			
1535	1541	1546	1547	1549	1550	1551	1552	1553	1555	1556			
1558	1559	1565	1567	1572	1573	1574	1576	1578	1583	1585			
1586	1589	1590	1591	1595	1597	1598	1599	1601	1604	1606			
1611	1617	1618	1620	1623	1635	1637	1639	1642	1646	1649			
1651	1654	1656	1664	1665	1666	1667	1670	1676	1677	1680			
1683	1685	1686	1689	1691	1702	1706	1707	1709	1710	1712			
1715	1717	1719	1721	1725	1726	1736	1737	1738	1739	1740			
1746	1751	1752	1754	1758	1759	1760	1761	1764	1765	1772			
1773	1778	1782	1783	1785	1787	1789	1790	1793	1794	1795			
1798	1799	1802	1803	1804	1806	1809	1813	1814	1815	1816			
1819	1821	1822	1823	1827	1829	1830	1831	1834	1837	1840			
1843	1854	1855	1857	1859	1861	1865	1871	1873	1875	1878			
1879	1881	1882	1886	1887	1888	1889	1896	1897	1898	1899			
1900	1905	1906	1910	1912	1917	1921	1922	1924	1926	1929			
1938	1939	1940	1941	1948	1950	1951	1953	1954	1955	1956			
1957	1958	1961	1962	1965	1966	1968	1971	1978	1981	1983			
1984	1985	2121	2123	2126	2129	2141	2144	2145	2146	2251			
2254	2272	2297	2303	2318	2323	2337	2350	2354	2364	2376			
2381	2384	2418	2422	2426	2429	2430	2433	2441	2453	2480			
2481	2493	2495	2496	2497	2498	2502	2503	2504	2505	2506			
2507	2508	2517	2518	2519	2524	2525	2526	2542	2548	2549			



ACTIVATION ANALYSIS-TECHNIQUE USED

NON-DESTRUCTIVE (CONTINUED)

2553	2554	2559	2569	2571	2579	2580	2584	2586	2591	2596
2597	2598	2605	2607	2608	2610	2612	2614	2615	2618	2619
2621	2622	2623	2633	2634	2644	2645	2649	2651	2652	2660
2661	2663	2664	2666	2668	2671	2676	2678	2680	2684	2686
2688	2689	2694	2699	2705	2707	2711	2727	2730	2732	2734
2737	2739	2740	2744	2748	2749	2750	2751	2756	2758	2759
2762	2764	2766	2774	2775	2777	2782	2789	2790	2796	2797
2798	2801	2802	2804	2805	2844	2892	2920	2921	2922	2927
2931	2933	2940	2942	2943	2945	2948	2949	2956	2957	2963
2964	2965	2966	2972	2976	2979	2981	2983	2987	3027	3033
3060	3062	3063	3078	3085	3087	3088	3089	3090	3126	3344
3346	3350	3355	3357	3358	3361	3362	3363	3364	3365	3366
3367	3368	3369	3370	3371	3372	3373	3374	3375	3376	3379
3384	3385	3386	3394	3399	3411	3418	3460	3461	3464	3466
3470	3473	3474	3486	3502	3514	3530	3553	3661	3708	3709
3710	3711	3717	3718	3721	3722	3727	3729	3730	3736	3738
3739	3740	3745	3746	3752	3753	3760	3766	3767	3768	3770
3771	3775	3778	3780	3781	3783	3788	3790	3791	3794	3797
3799	3803	3809	3810	3811	3841	3948	3954	3956	3965	3970
3973	3975	3976	3977	3980	3981	3986	3991	3992	3994	3996
3997	3998	4000	4005	4189	4191	4193	4194	4196	4197	4205
4207	4208	4209	4211	4214	4215	4216	4224	4226	4230	4231
4232	4240	4250	4252	4258	4260	4261	4262	4263	4270	4276
4277	4281	4282	4283	4284	4285	4286	4289	4293	4294	4308
4322	4328	4329	4347	4381	4386	4392	4406	5177	5238	5261
5262	5308	5311	5319	5320	5321	5322	5323	5325	5326	5330
5332	5343	5350	5353	5356	5357	5358	5363	5370	5372	5380
5383	5384	5385	5386	5389	5390	5393	5394	5399	5401	5402
5403	5407	5408	5409	5420	5428	5429	5430	5431	5432	5435
5438	5445	5450	5451	5452	5501	5510	5515	5517	5543	5547
5551	5566	5571	5577	5579	5581	5591	5621	5698	5704	5706
5707	5708	5713	5714	5720	5726	5727	5732	5735	5739	5740
5742	5746	5749	5752	5756	5759	5761	5764	5765	5766	5768
5769	5772	5773	5776	5778	5779	5781	5782	5786	5788	5848
5858	5870	5872	5874	5884	5919	5920	5923	5925	5927	5931
5932	5933	5934	5936	5939	5950	5953	5958	5959	5965	5967
5969	5970	5975	5977	5978	5979	5992	5994	6000	6004	6005
6011	6012	6014	6015	6031	6047	6048	6050	6052	6056	6058
6062	6063	6065	6068	6069	6072	6073	6074			

CHEMISTRY - DISSOLUTION TECHNIQUE

103	192	212	239	254	255	270	322	436	442	465	469	470	473
482	512	522	550	610	651	677	698	706	718	815	821	881	909
910	1001	1155	1166	1167	1169	1171	1173	1174	1176	1192			
1206	1207	1214	1436	1788	1842	1930	2154	2296	2365	2657			
2836	2991	3334	5399	5444									



ACTIVATION ANALYSIS-TECHNIQUE USED

CHEMISTRY - GROUP SEPARATIONS

103 166 167 252 255 424 462 508 509 614 674 704 708 714
 726 741 805 820 821 829 830 834 848 850 878 968 985
 1045 1047 1069 1089 1118 1123 1134 1138 1254 1323 1425
 1434 1443 1699 1710 1797 1800 1832 1894 1945 1965 1975
 2403 2523 2715 2718 2729 2840 2852 2922 2936 2950 3382
 4004 5344 5345 5347 5619 5760 5771 5785 5981 6071

CHEMISTRY - GENERAL

4 5 9 22 28 65 68 69 78 80 81 83 84 85 89 123 141 154
 158 174 176 187 192 193 194 200 215 239 240 282 284 287
 288 289 290 291 300 310 317 374 477 493 502 564 588 614
 638 640 641 651 652 662 674 676 683 686 688 692 698 699
 702 703 704 705 706 710 735 742 760 767 773 779 789 790
 807 815 818 825 827 838 844 851 852 856 879 882 895 896
 920 942 944 962 963 964 965 967 970 971 976 979 980 984
 995 997 998 1000 1002 1004 1020 1022 1027 1034 1041
 1057 1060 1075 1076 1085 1086 1087 1088 1094 1097 1102
 1105 1107 1122 1145 1156 1165 1169 1170 1180 1183 1184
 1187 1189 1190 1193 1194 1275 1283 1286 1312 1351 1354
 1356 1357 1361 1371 1373 1382 1383 1384 1385 1396 1397
 1400 1406 1408 1411 1421 1442 1457 1494 1652 1665 1675
 1693 1694 1707 1709 1711 1713 1717 1723 1725 1760 1769
 1786 1791 1803 1818 1828 1832 1848 1856 1858 1863 1890
 1902 1907 1911 1914 1920 1933 1976 2296 2333 2447 2464
 2473 2474 2495 2509 2522 2534 2535 2543 2546 2550 2578
 2590 2601 2685 2687 2717 2721 2735 2802 2819 2848 2876
 2892 2921 2922 2923 3079 3091 3382 3481 3483 3486 3504
 3508 3514 3560 3708 3755 3962 3987 3988 3995 4153 4216
 4219 4300 4315 4317 4319 5307 5327 5416 5436 5444 5499
 5502 5716 5717 5718 5861 5864 5924 5940 5948 5976 5980
 5982 5991 6008 6016 6044 6055

CHEMISTRY - PRECIPITATION

6 7 10 11 12 30 31 32 39 44 54 55 56 63 64 66 67 96 103
 115 116 124 130 133 137 138 139 145 146 148 161 165 172
 178 180 183 209 214 217 221 223 225 227 230 231 232 234
 236 243 244 246 249 250 252 254 255 262 263 270 279 300
 302 304 326 329 349 351 353 360 361 362 363 364 366 367
 391 398 400 411 416 422 429 431 432 434 436 448 449 452
 459 461 465 467 478 482 483 501 512 517 522 525 531 535
 537 541 544 545 553 560 562 571 575 585 586 587 620 622
 655 673 675 677 687 689 727 757 776 777 778 788 792 802
 805 815 821 858 867 869 871 878 892 907 922 928 929 937
 945 1060 1108 1117 1118 1124 1125 1127 1135 1137 1151



ACTIVATION ANALYSIS-TECHNIQUE USED

CHEMISTRY - PRECIPITATION (CONTINUED)

1155	1159	1166	1169	1170	1171	1173	1174	1176	1177	1181
1182	1188	1205	1206	1207	1208	1212	1214	1215	1222	1223
1224	1226	1230	1231	1232	1235	1237	1240	1241	1243	1244
1246	1247	1257	1266	1271	1278	1292	1293	1299	1300	1307
1310	1319	1320	1323	1324	1326	1334	1340	1347	1351	1428
1433	1449	1456	1458	1469	1471	1473	1477	1478	1480	1484
1515	1520	1525	1533	1542	1548	1563	1564	1568	1569	1571
1577	1581	1584	1592	1613	1614	1615	1621	1631	1632	1634
1636	1648	1655	1660	1671	1672	1677	1682	1697	1705	1720
1734	1743	1745	1749	1750	1770	1781	1801	1812	1825	1833
1839	1844	1893	1936	1937	1970	1977	1979	1982	2122	2365
2385	2496	2497	2552	2573	2643	2654	2658	2669	2690	2751
2769	2772	2773	2786	2791	2792	2793	2821	2830	2839	2849
2852	2865	2878	2926	2930	2938	2954	2977	2982	2984	3061
3098	3105	3328	3352	3387	3391	3393	3395	3467	3485	3488
3713	3723	3724	3725	3726	3732	3785	3949	3957	3960	3985
3993	3994	4195	4219	4221	4227	4244	4249	4253	4255	4267
4268	4272	4290	4299	4307	5349	5359	5369	5406	5472	5522
5721	5731	5755	5777	5972	5983	6002	6010	6053	6064	6086

CHEMISTRY - DISTILLATION

8	10	11	62	103	117	121	122	124	134	142	143	172	181	186
196	197	221	222	226	231	242	245	248	256	279	284	322	370	
378	451	465	474	475	481	493	498	562	570	602	636	709	804	
812	851	864	871	911	1010	1012	1100	1119	1124	1135	1151			
1157	1205	1221	1226	1230	1231	1235	1246	1250	1278	1288				
1326	1340	1412	1416	1425	1446	1470	1528	1542	1548	1560				
1564	1648	1679	1730	1742	1744	1749	1862	1891	1904	1964				
1969	2157	2403	2515	2537	2540	2562	2563	2661	2701	2712				
2731	2795	2813	2853	2954	3360	3713	3725	3726	3732	3789				
3808	3965	4217	4254	4255	4268	4269	4274	4278	4305	4321				
5295	5358	5364	5366	5449	5851	5926	5938	5954	6025	6039				

CHEMISTRY - SOLVENT EXTRACTION

12	26	33	34	40	41	42	50	62	66	116	117	124	133	137	138
140	145	146	165	178	183	186	210	212	221	229	234	235	239		
243	249	252	254	255	262	269	328	361	362	367	379	409	410		
412	422	424	445	482	485	490	492	507	563	565	575	586	591		
601	634	772	781	804	810	813	815	858	864	866	867	878	880		
883	906	928	952	1015	1028	1096	1109	1121	1125	1127	1133				
1135	1139	1143	1145	1146	1147	1150	1153	1156	1159	1166					
1167	1168	1173	1184	1191	1201	1211	1212	1215	1231	1234					
1235	1243	1244	1250	1262	1264	1266	1273	1274	1278	1292					
1307	1313	1317	1323	1324	1325	1326	1340	1391	1401	1426					
1431	1433	1442	1456	1458	1470	1477	1480	1497	1518	1526					



ACTIVATION ANALYSIS-TECHNIQUE USED

CHEMISTRY - SOLVENT EXTRACTION (CONTINUED)

1537	1538	1548	1564	1566	1569	1581	1592	1603	1610	1614
1615	1621	1632	1648	1653	1671	1692	1703	1728	1741	1743
1748	1749	1763	1767	1788	1820	1825	1833	1841	1874	1895
1901	1913	1930	1931	1960	1980	2036	2154	2340	2347	2369
2386	2431	2434	2444	2445	2455	2499	2502	2525	2539	2611
2613	2641	2665	2666	2690	2696	2722	2752	2753	2754	2769
2791	2792	2793	2795	2811	2873	2881	2888	2889	2951	2991
3005	3084	3342	3345	3391	3395	3476	3482	3713	3714	3804
3957	3982	4190	4203	4253	4255	4269	4302	4311	4314	5335
5349	5365	5369	5397	5415	5500	5699	5703	5719	5728	5729
5730	5743	5747	5770	5775	5787	5793	5848	5928	5935	5949
5955	5960	5995	5996	5999	6013	6017	6054	6061		

CHEMISTRY - CHROMATOGRAPHY OR ION EXCHANGE

14	47	50	54	61	79	87	93	96	115	138	140	145	146	160	212
225	252	258	263	267	325	331	356	390	416	418	421	422	434		
439	442	450	504	520	542	548	550	595	606	689	717	723	726		
728	730	799	870	871	874	878	892	899	900	909	919	923	988		
999	1015	1016	1038	1047	1063	1101	1107	1168	1169	1176					
1205	1209	1210	1214	1221	1222	1236	1242	1243	1265	1272					
1277	1281	1285	1287	1292	1307	1323	1324	1332	1333	1342					
1381	1404	1410	1421	1428	1431	1432	1434	1441	1449	1454					
1462	1463	1469	1470	1471	1474	1477	1478	1479	1486	1512					
1529	1564	1566	1584	1592	1596	1603	1607	1613	1616	1632					
1633	1634	1644	1645	1668	1677	1678	1679	1681	1682	1704					
1708	1722	1732	1741	1747	1759	1762	1766	1780	1797	1800					
1805	1811	1817	1824	1835	1839	1844	1870	1872	1892	1894					
1925	1945	1952	1957	1959	1973	1983	2052	2148	2149	2283					
2308	2327	2386	2480	2496	2513	2523	2557	2638	2639	2640					
2654	2669	2687	2690	2695	2713	2714	2725	2741	2754	2776					
2794	2800	2812	2846	2849	2852	2870	2882	2888	2901	2902					
2904	2932	2969	2973	2989	2999	3005	3065	3093	3341	3383					
3397	3414	3469	3475	3661	3714	3716	3731	3757	3759	3774					
3789	3808	3810	3955	3957	3958	3959	3961	3964	3990	4004					
4192	4219	4267	4268	4291	4296	4301	4388	4391	4410	4411					
5336	5338	5341	5359	5368	5378	5382	5405	5410	5422	5439					
5447	5448	5697	5750	5751	5790	5792	5808	5862	5873	5941					
5951	5955	5961	5962	5963	5964	5981	6001	6007	6040	6043					
6067	6077	6078	6079	6084	6085										

CHEMISTRY - ELECTRODEPOSITION

138	211	261	340	395	579	832	1113	1129	1192	1221	1313
1391	1471	1525	2511	2728	2929	3991	4201	4303	5395	5398	
6076											



ACTIVATION ANALYSIS-TECHNIQUE USED

CHEMISTRY - ISOTOPE EXCHANGE

126 436 539 540 636 1525 2277 2551 5701 5712 5860 6080

CHEMISTRY - AMALGAM EXCHANGE

740 815 1411 2006 2978 3989 4309 5942

CHEMISTRY - SCILARD=CHALMERS

153 328 1333 2473 2871

CHEMISTRY - SUBSTOICHIOMETRIC

425 768 1121 1159 1291 1346 1493 1575 1579 1587 1588
1974 2154 2358 2560 2845 3396 3804 4306 4310 5922 5956
5984 6024

CHEMISTRY - AUTOMATED

285 708 1042 2403 2556 2558 2901 5760

CHEMISTRY - ABSORPTION OR ADSORPTION

192 1539 1543

RAPID RADIOCHEMICAL SEPARATION

254 442 583 686 697 811 821 829 830 834 953 982 1172
1409 1412 1425 1434 1446 1692 2157 2409 2611 2636 2954
3388 3487 3669 3989 5336

ISOTOPE DILUTION

172 195 1018 1750 2887 3084 3093 4298 5753

GAMMA SPECTROMETRY

2 4 5 9 12 13 14 15 17 21 26 28 29 33 34 35 39 40 41 42
43 44 48 50 54 55 56 58 59 61 64 78 79 80 81 89 90 103
104 107 113 116 117 130 131 136 137 140 145 146 148 153
160 165 167 172 173 175 178 179 183 184 185 193 197 199
205 212 215 221 237 238 239 252 253 254 255 258 259 267
268 272 279 284 285 288 289 290 291 301 302 304 305 310
312 314 317 318 319 321 323 325 326 328 329 330 331 339
343 344 349 351 352 353 356 357 364 370 371 374 375 377



ACTIVATION ANALYSIS-TECHNIQUE USED

GAMMA SPECTROMETRY (CONTINUED)

386	387	390	391	395	398	403	405	407	409	410	412	414	416
418	422	423	425	426	430	433	434	439	442	444	445	448	450
454	455	459	460	461	472	473	476	482	486	487	488	489	493
494	500	504	507	508	509	516	518	519	521	531	533	535	542
546	548	552	555	560	561	562	564	566	567	570	573	574	581
583	584	585	586	587	588	590	592	596	601	604	605	606	607
608	614	619	620	622	623	625	628	630	634	635	636	637	638
640	641	649	652	653	655	657	658	659	662	665	667	676	686
687	688	689	690	693	695	696	698	701	702	703	705	706	707
708	709	710	711	712	713	714	716	718	726	727	732	733	735
738	740	741	752	753	754	756	758	760	762	763	767	768	771
772	773	777	781	784	788	789	790	791	792	796	797	798	802
803	804	805	806	810	811	812	813	814	818	820	821	822	823
824	825	827	829	830	831	833	834	844	845	848	849	850	851
852	855	856	861	863	866	867	871	879	880	881	882	883	884
886	887	888	892	899	902	903	906	907	912	913	915	919	920
923	924	927	930	931	932	933	934	935	936	938	940	942	943
944	945	946	948	950	951	953	955	956	957	959	960	961	962
964	966	968	971	972	974	977	980	982	984	986	987	988	989
990	992	994	995	996	997	998	999	1001	1002	1003	1004		
1005	1006	1007	1008	1009	1010	1011	1012	1014	1017	1019			
1020	1021	1022	1024	1027	1029	1031	1032	1033	1034	1035			
1036	1038	1041	1042	1043	1047	1052	1055	1056	1060	1063			
1064	1065	1066	1068	1072	1073	1074	1075	1076	1077	1084			
1086	1087	1089	1090	1092	1094	1095	1097	1098	1099	1100			
1101	1102	1103	1105	1106	1107	1108	1109	1110	1112	1114			
1116	1117	1118	1119	1124	1129	1132	1134	1137	1138	1139			
1140	1141	1143	1150	1151	1152	1153	1157	1158	1159	1161			
1162	1166	1167	1168	1169	1170	1171	1172	1173	1174	1176			
1182	1183	1184	1185	1187	1189	1190	1191	1192	1194	1195			
1196	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208			
1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1220			
1221	1222	1223	1224	1225	1226	1227	1228	1229	1230	1231			
1232	1233	1234	1235	1236	1238	1239	1240	1241	1243	1244			
1245	1246	1247	1248	1250	1251	1254	1256	1257	1258	1263			
1264	1265	1269	1272	1273	1275	1277	1279	1281	1283	1284			
1286	1288	1289	1290	1291	1293	1294	1295	1297	1299	1300			
1304	1306	1309	1310	1311	1312	1313	1314	1317	1318	1319			
1320	1323	1325	1327	1332	1333	1334	1340	1347	1355	1356			
1358	1359	1361	1369	1374	1375	1376	1381	1382	1383	1384			
1386	1391	1395	1396	1397	1398	1400	1402	1403	1404	1406			
1407	1408	1409	1410	1411	1412	1413	1414	1415	1417	1419			
1420	1421	1424	1425	1426	1427	1428	1429	1432	1433	1434			
1436	1437	1438	1442	1443	1446	1447	1452	1453	1454	1455			
1456	1460	1462	1466	1468	1469	1470	1471	1472	1473	1477			
1478	1479	1480	1481	1484	1486	1487	1491	1492	1493	1494			
1496	1497	1501	1504	1505	1508	1509	1510	1512	1514	1515			



ACTIVATION ANALYSIS-TECHNIQUE USED

GAMMA SPECTROMETRY (CONTINUED)

1517	1518	1519	1521	1522	1525	1526	1527	1528	1529	1530
1531	1532	1533	1535	1537	1538	1539	1540	1541	1542	1543
1548	1549	1550	1551	1552	1554	1555	1556	1558	1559	1560
1563	1564	1565	1566	1567	1568	1569	1571	1572	1574	1578
1581	1583	1584	1585	1586	1587	1588	1589	1590	1591	1592
1595	1596	1597	1598	1599	1601	1603	1606	1607	1610	1613
1614	1615	1617	1620	1628	1631	1633	1634	1635	1639	1642
1643	1644	1645	1646	1648	1649	1652	1653	1654	1655	1656
1665	1670	1672	1673	1676	1677	1678	1679	1680	1682	1689
1691	1692	1697	1699	1702	1705	1706	1707	1708	1709	1710
1712	1715	1717	1719	1721	1722	1723	1725	1732	1734	1735
1736	1737	1738	1739	1740	1741	1742	1744	1745	1746	1748
1749	1750	1759	1760	1761	1765	1766	1767	1769	1781	1786
1789	1790	1791	1793	1794	1795	1797	1798	1799	1803	1804
1805	1806	1809	1813	1815	1817	1821	1825	1827	1828	1829
1831	1832	1833	1835	1837	1840	1842	1844	1848	1851	1854
1855	1856	1860	1863	1875	1878	1881	1882	1884	1885	1887
1889	1890	1891	1892	1893	1894	1896	1897	1899	1900	1901
1902	1904	1905	1906	1907	1910	1911	1912	1917	1920	1921
1925	1926	1929	1930	1931	1934	1936	1938	1939	1942	1943
1944	1950	1953	1954	1956	1957	1960	1961	1962	1964	1966
1968	1969	1970	1971	1973	1975	1978	1981	1982	1983	2121
2122	2123	2126	2129	2141	2144	2145	2154	2157	2251	2272
2283	2296	2297	2327	2337	2347	2354	2358	2369	2376	2381
2384	2385	2386	2403	2418	2422	2426	2430	2431	2433	2440
2441	2445	2447	2453	2455	2464	2474	2480	2481	2493	2494
2495	2496	2497	2498	2499	2502	2503	2504	2505	2506	2507
2508	2509	2511	2515	2517	2519	2524	2525	2526	2535	2537
2539	2540	2542	2548	2549	2550	2551	2552	2553	2558	2562
2563	2565	2569	2571	2573	2578	2580	2584	2586	2590	2591
2596	2598	2601	2605	2607	2608	2611	2613	2614	2615	2618
2619	2621	2622	2623	2626	2638	2639	2641	2645	2649	2651
2652	2658	2660	2661	2663	2664	2665	2666	2668	2669	2671
2676	2678	2683	2684	2685	2686	2688	2689	2690	2694	2695
2696	2699	2701	2705	2707	2711	2713	2715	2717	2718	2721
2722	2725	2727	2728	2730	2732	2733	2734	2735	2737	2739
2740	2741	2744	2749	2750	2752	2753	2754	2756	2758	2760
2764	2766	2769	2773	2774	2775	2776	2782	2786	2789	2790
2791	2792	2793	2795	2797	2798	2800	2801	2802	2804	2805
2819	2821	2836	2838	2840	2844	2846	2848	2852	2870	2871
2876	2881	2882	2888	2889	2892	2902	2904	2920	2921	2922
2923	2926	2929	2930	2931	2933	2936	2938	2948	2950	2957
2964	2965	2972	2973	2977	2978	2981	2983	2984	2989	2991
2999	3005	3027	3060	3061	3062	3063	3064	3065	3070	3073
3075	3076	3077	3079	3081	3085	3087	3088	3090	3091	3093
3098	3283	3328	3341	3342	3344	3345	3346	3350	3352	3355
3357	3358	3360	3363	3364	3365	3366	3367	3368	3369	3370



ACTIVATION ANALYSIS-TECHNIQUE USED

GAMMA SPECTROMETRY (CONTINUED)

3371	3372	3373	3374	3375	3382	3383	3384	3385	3386	3387
3388	3395	3396	3411	3414	3418	3461	3467	3468	3470	3474
3475	3476	3483	3485	3486	3487	3488	3490	3491	3492	3502
3504	3514	3530	3553	3560	3661	3708	3710	3713	3716	3718
3723	3724	3725	3730	3731	3736	3738	3739	3740	3741	3745
3752	3753	3757	3759	3766	3768	3769	3770	3771	3774	3775
3780	3781	3783	3785	3788	3789	3790	3791	3794	3797	3799
3803	3804	3808	3809	3810	3841	3948	3949	3954	3955	3956
3957	3958	3959	3960	3961	3964	3973	3975	3976	3980	3982
3986	3988	3989	3990	3991	3992	3994	3996	3997	3998	4153
4189	4190	4191	4192	4193	4194	4195	4196	4197	4201	4203
4205	4208	4209	4214	4215	4216	4217	4221	4224	4226	4227
4230	4231	4232	4240	4244	4249	4250	4252	4253	4254	4255
4258	4260	4261	4263	4267	4269	4270	4272	4273	4274	4276
4281	4282	4283	4284	4285	4286	4290	4291	4293	4294	4298
4299	4300	4301	4302	4303	4305	4306	4307	4308	4309	4311
4314	4315	4321	4322	4328	4329	4347	4381	4392	4406	5307
5308	5311	5321	5322	5325	5326	5327	5332	5335	5336	5338
5341	5343	5344	5345	5347	5349	5358	5359	5363	5364	5365
5366	5368	5369	5370	5378	5379	5380	5382	5383	5384	5386
5389	5390	5393	5394	5398	5401	5402	5407	5409	5410	5415
5416	5420	5428	5430	5431	5432	5435	5438	5444	5445	5447
5448	5449	5450	5451	5452	5498	5499	5500	5502	5510	5571
5579	5619	5697	5698	5699	5703	5704	5705	5706	5707	5708
5712	5713	5714	5717	5718	5720	5721	5725	5726	5727	5728
5729	5730	5732	5739	5740	5742	5743	5746	5747	5749	5750
5751	5753	5755	5759	5760	5761	5764	5768	5770	5771	5775
5776	5777	5778	5781	5785	5786	5787	5790	5792	5793	5808
5853	5858	5860	5868	5870	5872	5873	5874	5884	5920	5921
5922	5923	5924	5925	5926	5934	5935	5939	5940	5941	5942
5948	5949	5950	5951	5954	5955	5958	5959	5960	5961	5962
5963	5964	5967	5969	5970	5972	5975	5976	5978	5979	5981
5983	5991	5992	5994	5995	5996	5999	6001	6002	6005	6006
6007	6008	6010	6011	6013	6014	6015	6016	6023	6029	6039
6040	6043	6048	6050	6052	6054	6055	6056	6058	6061	6062
6063	6064	6065	6067	6068	6071	6074	6077	6080	6081	6085

SOLID STATE GAMMA SPECTROMETRY

845	865	1573	2146	2254	2350	2532	2559	2579	2604	2762
2945	3491	3791	3985	4005	4204	4280	5421	5583	5587	5766
5788	5875	5936	5975	5977	5981	6000	6012	6029	6069	6074



ACTIVATION ANALYSIS-TECHNIQUE USED

BETA AND ALPHA SPECTROMETRY

140 146 252 255 259 261 262 267 269 270 271 272 279 322
 326 347 349 411 416 421 424 431 449 451 455 468 470 530
 692 811 828 838 1076 1101 1123 1124 1125 1127 1145 1155
 1158 1159 1160 1162 1169 1180 1183 1187 1190 1191 1197
 1231 1237 1242 1263 1357 1401 1404 1416 1424 1431 1437
 1455 1486 1494 1618 1885 2052 2157 2407 2518 2523 3091
 3093 3464 3760 3993 4001 4227 4248 4262 4289 5343 5344
 5345 5347 5444 5543

COINCIDENCE SPECTROMETRY

45 46 49 105 110 125 140 155 166 208 312 393 428 432
 594 621 653 682 822 842 845 849 850 862 1012 1059 1071
 1076 1079 1098 1099 1115 1194 1326 1340 1466 1500 1532
 1578 1612 1616 1623 1735 1801 1814 1859 1860 1886 1914
 1958 1965 1967 2500 2516 2529 2544 2546 2610 2612 2644
 2772 2796 2971 2979 2987 3467 3473 3491 3720 3721 3738
 3778 3970 3978 4001 4204 4386 5330 5343 5385 5399 5417
 5591 5621 5782 5931 5975 6029 6053 6072

NON-DISCRIMINATORY COUNTING (A, B, Y) BUT INCLUDES HALF LIFE
 AND ABSORBER MEASUREMENTS, AUTORADIOGRAPHY, EMULSIONS

6 7 8 10 11 12 13 22 23 24 26 28 30 31 32 35 37 47 51
 52 53 54 61 62 63 64 65 66 67 68 69 73 75 79 83 84 85
 87 93 96 97 98 100 102 103 105 108 109 114 115 118 119
 120 121 122 123 124 126 133 134 135 138 139 141 142 143
 144 147 151 154 158 161 163 166 167 171 174 176 178 180
 181 186 187 188 189 194 196 198 200 209 210 211 213 214
 216 217 219 221 222 223 225 226 227 228 229 230 231 232
 233 234 235 236 243 245 249 250 256 266 274 275 287 301
 327 333 346 354 358 360 361 362 363 366 378 379 382 384
 385 396 397 398 400 402 408 413 417 429 436 437 438 443
 465 467 474 477 478 481 483 485 490 491 492 493 499 501
 509 512 522 524 537 538 553 563 571 578 580 589 591 595
 602 610 612 622 623 629 631 651 652 653 654 669 670 674
 675 676 677 688 692 699 705 723 730 736 739 744 755 757
 760 774 775 776 778 779 783 792 853 858 864 869 871 881
 883 909 910 911 914 916 921 922 923 928 929 937 939 941
 949 952 954 963 965 967 970 973 976 979 985 1013 1015
 1016 1018 1023 1028 1030 1057 1061 1062 1078 1080 1081
 1082 1083 1085 1086 1087 1088 1096 1104 1107 1108 1109
 1111 1113 1121 1123 1131 1133 1135 1143 1146 1147 1219
 1252 1257 1259 1260 1262 1266 1267 1271 1274 1275 1278
 1285 1287 1292 1293 1295 1298 1307 1329 1342 1351 1356
 1373 1380 1385 1389 1391 1392 1394 1399 1449 1457 1458



ACTIVATION ANALYSIS-TECHNIQUE USED

NON-DISCRIMINATORY COUNTING (A, B, Y) BUT INCLUDES HALF LIFE AND ABSORBER MEASUREMENTS, AUTORADIOGRAPHY, EMULSIONS (CONTINUED)

1462	1471	1473	1474	1477	1478	1479	1483	1494	1495	1506
1513	1520	1540	1546	1547	1563	1569	1577	1581	1601	1604
1621	1628	1636	1655	1660	1664	1671	1675	1677	1683	1685
1686	1693	1694	1700	1711	1713	1720	1726	1730	1743	1747
1751	1752	1754	1758	1762	1763	1764	1770	1772	1773	1774
1778	1780	1786	1787	1788	1798	1800	1812	1814	1822	1824
1830	1834	1839	1841	1844	1848	1858	1861	1862	1865	1870
1871	1872	1873	1874	1879	1888	1911	1924	1937	1945	1948
1952	1955	1959	1974	1976	1977	1979	1980	2323	2340	2384
2386	2409	2444	2455	2501	2523	2534	2554	2597	2633	2636
2640	2643	2654	2657	2658	2661	2680	2687	2712	2714	2717
2718	2721	2731	2735	2748	2759	2794	2797	2839	2845	2849
2853	2865	2873	2878	2920	2921	2927	2932	2940	2942	2943
2949	2964	2969	2976	2982	3064	3105	3361	3376	3391	3394
3397	3414	3469	3481	3482	3491	3669	3709	3714	3716	3726
3727	3729	3730	3732	3736	3746	3755	3767	3783	3962	3965
3976	3977	3981	3987	3995	4207	4267	4278	4296	4315	4319
4388	5295	5320	5350	5353	5356	5357	5359	5370	5381	5395
5397	5398	5403	5405	5406	5408	5422	5429	5439	5472	5501
5515	5517	5547	5581	5719	5731	5752	5769	5848	5851	5923
5927	5932	5933	5938	5965	5984	6004	6017	6031	6044	6063
6073	6086									

NEUTRON COUNTING

82	88	169	170	206	207	321	380	479	514	554	770	782	808
819	839	841	843	868	904	905	908	978	983	1025	1070	1136	
1270	1280	1302	1377	1393	1435	1637	1642	1782	1811	1822			
1857	1906	2303	2318	2634	2751	2777	2963	2987	3491	3711			
4277	5238	5262	5319	5323	5551	5735	5765	5953					

PROMPT GAMMA COUNTING

184	185	312	383	665	713	1026	1049	1061	1178	1336	1337		
1553	1576	1611	1651	1685	1772	1783	1785	1843	1898	1935			
1951	1984	1985	2140	2254	2364	2429	2504	2530	2652	2684			
2933	3033	3078	3089	3126	3362	3399	3466	3717	3741	3753			
3811	3976	3979	4000	5177	5261	5372	5384	5566	5577	5733			
5756	5773	5779	5919										



ACTIVATION ANALYSIS-TECHNIQUE USED

NEUTRON FLUX DETERMINATION, INCLUDES SAMPLE SELF-SHIELDING
AND FLUX PERTURBATIONS

125 161 179 186 205 209 212 221 304 305 306 316 347 377
 391 396 399 403 467 510 552 581 609 662 701 735 743 794
 828 832 840 843 845 853 854 868 903 1037 1044 1054 1064
 1070 1085 1116 1156 1158 1161 1169 1261 1303 1331 1335
 1347 1349 1418 1419 1420 1437 1452 1467 1477 1487 1511
 1570 1593 1598 1624 1627 1641 1642 1647 1648 1659 1676
 1696 1716 1729 1827 1877 1912 1936 1946 1950 1958 1981
 1982 2280 2480 2537 2625 2754 2802 2957 3414 3479 3485
 3719 3797 4224 5339 5447 5602 5860 5868 5962

CHARGE PARTICLE FLUX DETERMINATION, INCLUDES SAMPLE SELF
SHIELDING

314 381 1312 3403 3719 4215

PHOTONUCLEAR FLUX DETERMINATION, INCLUDES SAMPLE SELF
SHIELDING

1014 1178 3719 3791 5379

INTERFERING NUCLEAR REACTIONS

108 114 131 157 196 201 314 332 346 347 352 361 386 399
 432 461 493 516 518 544 552 555 567 578 580 583 588 595
 601 614 622 662 676 687 701 703 705 711 727 819 822 828
 831 835 842 844 850 856 868 940 977 986 1010 1012 1104
 1144 1145 1158 1160 1161 1180 1183 1184 1190 1192 1194
 1198 1199 1341 1347 1375 1386 1398 1400 1408 1413 1420
 1424 1425 1432 1433 1436 1455 1456 1477 1499 1507 1520
 1525 1528 1598 1599 1601 1628 1647 1678 1731 1816 1899
 1907 1911 1914 1920 1937 1938 1950 1968 2250 2283 2369
 2495 2499 2515 2643 2662 2681 2723 2754 2767 2839 3384
 3403 3414 3461 3470 3479 3485 3993 3994 4201 5341 5381
 5382 5757 5978

OTHER ERRORS ASSOCIATED WITH IRRADIATION

131 205 212 291 295 297 300 306 322 328 344 346 388 399
 476 505 533 614 620 621 622 828 835 836 842 845 850
 1087 1261 1442 1528 1598 1647 1675 1676 1729 1731 1889
 1910 1956 1972 1981 2681 2849 2948 2990 3101 3403 3479
 3488 3781 3791 4206 4213 4224 4325 5339 5602 6066



ACTIVATION ANALYSIS-TECHNIQUE USED

COUNTING ERRORS AND CORRECTIONS

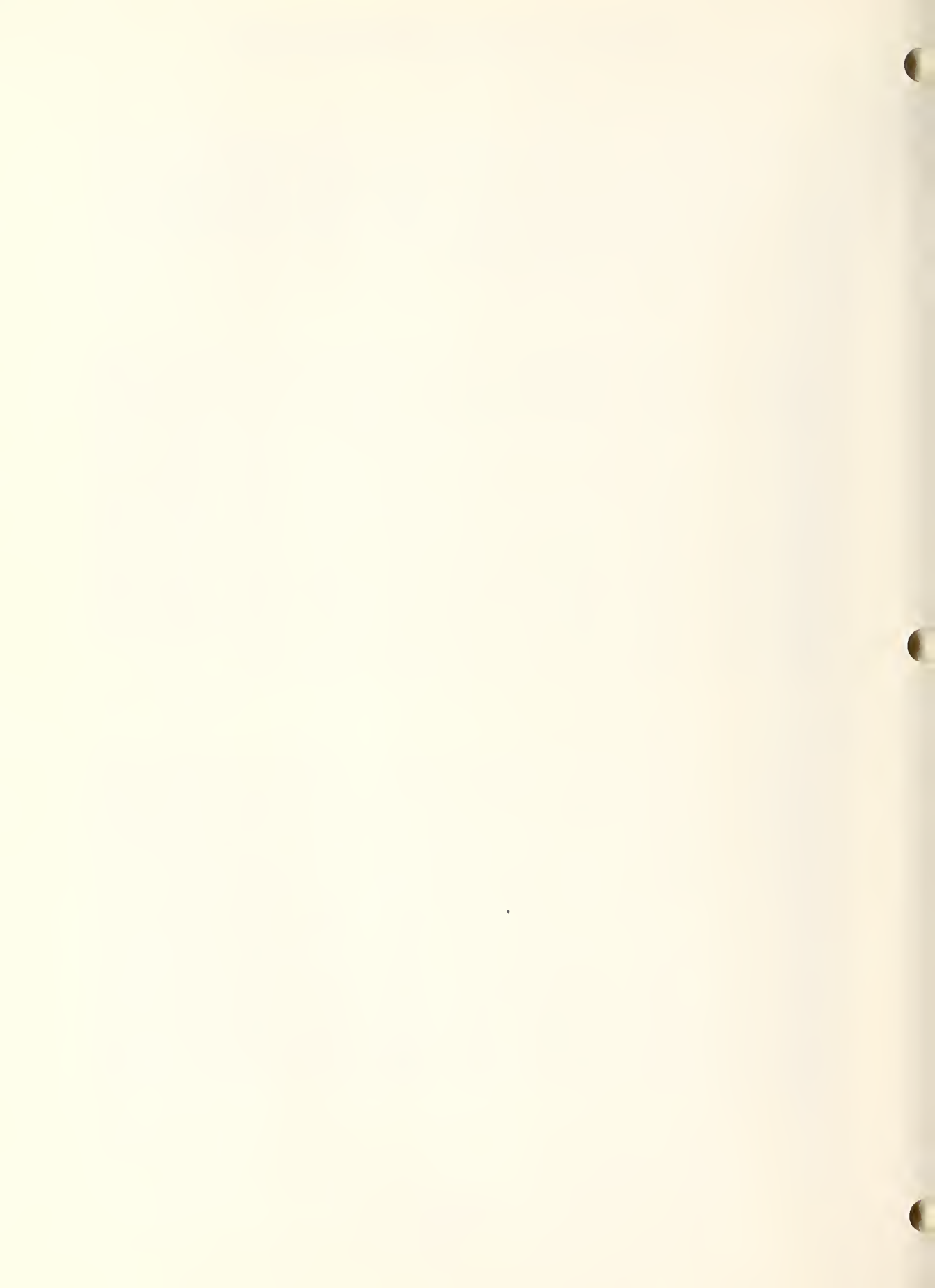
173	184	185	242	312	322	344	391	399	455	468	585	592	610
614	619	620	621	676	711	739	843	854	1090	1136	1161	1177	
1178	1182	1187	1191	1195	1196	1199	1309	1347	1434	1601			
1643	1662	1676	1684	1729	1873	1936	1937	1939	2280	2480			
2497	2503	2580	2587	2643	2660	2692	3374	3466	3468	3479			
3499	3791	4206	4215	4224	5385								

PRECISION=ACCURACY DISCUSSED

57	105	108	110	113	114	130	201	205	212	255	263	267	284
285	286	287	288	289	290	305	312	322	329	337	342	344	399
400	519	549	555	585	609	614	621	622	656	691	739	808	840
841	842	843	855	854	863	866	868	952	1017	1027	1040	1064	
1076	1080	1082	1084	1085	1090	1094	1160	1162	1167	1167	1169		
1171	1172	1175	1178	1180	1181	1182	1183	1184	1187	1191			
1193	1196	1199	1255	1328	1347	1362	1414	1415	1439	1442			
1453	1462	1466	1484	1505	1518	1528	1537	1541	1598	1599			
1627	1628	1641	1645	1647	1729	1731	1782	1815	1865	1872			
1873	1885	1889	1912	1913	1950	1967	1969	1979	1981	1983			
2157	2455	2499	2505	2525	2534	2537	2539	2541	2542	2549			
2652	2686	2754	2755	2777	2836	2849	2873	3079	3091	3099			
3368	3381	3382	3418	3482	3488	3514	4196	4203	4276	4278			
5341	5353	5366	5368	5372	5381	5385	5390	5713					

SENSITIVITY TABLES

16	111	130	132	141	162	164	201	203	205	218	281	293	294
295	296	297	298	312	337	340	342	343	344	345	347	409	435
446	447	449	566	580	584	603	618	641	643	644	646	659	663
668	671	678	679	685	702	703	708	722	736	748	751	808	810
835	836	837	841	845	846	850	852	859	873	877	890	894	901
918	942	951	972	1039	1040	1049	1051	1065	1088	1097	1144		
1148	1152	1154	1162	1166	1172	1190	1193	1196	1304	1312			
1315	1327	1347	1352	1353	1355	1361	1375	1404	1407	1416			
1417	1421	1425	1439	1464	1465	1503	1522	1524	1536	1540			
1620	1642	1656	1660	1669	1673	1676	1691	1731	1755	1808			
1838	1854	1873	1874	1875	1881	1885	1889	1903	1911	1935			
1940	1941	2452	2510	2567	2568	2663	2690	2697	2799	2924			
2937	2939	3059	3071	3082	3091	3366	3395	3483	3487	3508			
3756	3772	3793	3805	3978	3980	4294	5317	5372	5379	5384			
5389	5993												



ACTIVATION ANALYSIS-TECHNIQUE USED

PRECONCENTRATION, CONTAMINATION, COLLECTION AND HANDLING TECHNIQUES

47 61 160 179 183 192 263 322 331 354 377 385 422 437
438 477 493 511 542 543 586 614 708 721 813 829 850 851
932 933 1107 1129 1141 1143 1181 1242 1281 1342 1404
1409 1412 1416 1427 1428 1432 1436 1455 1462 1463 1478
1479 1497 1518 1526 1529 1609 1628 1636 1653 1655 1708
1722 1747 1750 1770 1774 1811 1832 1835 1874 1914 2440
2511 2540 2598 2621 2635 2637 2665 2672 2685 2687 2695
2696 2734 2748 2752 2800 2904 2936 2981 2984 2989 3100
3358 3507 3508 3509 3724 3959 3960 3964 4201 4217 4219
4273 4296 4302 4314 5341 5357 5358 5359 5368 5451 5869
5873 5929 5959 5962 5963 6002 6052 6068 6076 6081

IRRADIATION TECHNIQUES, SAMPLE HANDLING AND FACILITIES, FLUX MONITORS

125 131 146 181 192 199 205 280 281 285 316 324 341 348
455 500 614 625 631 635 658 670 702 714 719 737 765 819
824 843 846 848 852 898 950 961 979 1020 1048 1054 1055
1083 1097 1116 1136 1145 1148 1248 1256 1258 1269 1277
1407 1418 1437 1439 1440 1517 1523 1528 1539 1545 1627
1642 1658 1659 1661 1663 1676 1695 1696 1698 1701 1702
1706 1712 1717 1722 1729 1845 1853 1861 1864 1868 1875
1883 1889 1912 1916 1920 1922 1923 1940 1945 1956 1957
1965 2104 2147 2335 2410 2501 2524 2527 2536 2542 2548
2549 2564 2576 2598 2659 2672 2787 2849 2924 2936 2937
2939 2948 3333 3376 3403 3461 3507 3509 3745 3751 3790
3791 3796 3797 3808 3956 3981 4251 4260 5318 5425 5443
5451 5594 5610 5694 5711 5733 5748 5868 5873 5943 5952
5963 5983 6059

ACTIVATION ANALYSIS STANDARDS AND STANDARD REFERENCE MATERIALS

205 306 314 361 362 363 365 367 371 572 581 587 600 676
687 808 820 841 953 1076 1126 1187 1255 1282 1293 1431
1433 1596 2501 2537 3413 3472 3481 3560 4320 5985



ACTIVATION ANALYSIS-TECHNIQUE USED

COMPUTER APPLICATIONS AND NUMERICAL METHODS

18 36 58 156 199 201 273 520 527 534 574 590 642 693
707 759 826 845 977 1033 1041 1058 1073 1251 1328 1359
1419 1457 1508 1556 1557 1567 1580 1617 1620 1622 1691
1702 1735 1737 1790 1809 1819 1826 1851 1866 1868 1919
1947 2107 2116 2387 2450 2494 2506 2508 2514 2515 2521
2533 2538 2545 2547 2548 2574 2602 2673 2689 2691 2702
2706 2715 2740 2760 2767 2801 3082 3263 3353 3356 3380
3381 3391 3500 3514 3550 3552 3662 3741 3776 3791 3798
3809 4200 4210 4243 4275 4287 4326 4377 4393 4397 5348
5361 5376 5498 5513 5546 5583 5587 5618 5620 5740 5744
5745 5778 5937 5971 6046 6082 6087

DATA HANDLING SYSTEMS

590 931 961 1116 1279 1567 1620 1670 1702 1712 1954
2547 2702 2703 2707 2740 2951 2968 3356 3662 3791 4199
4200 5434

ELECTRONICS IN ACTIVATION ANALYSIS

318 352 389 393 653 682 637 1058 1079 1116 1350 1358
1602 1612 1944 1984 2252 2500 2529 2538 2561 2650 2702
2703 2704 2710 2738 2740 2779 2801 3117 3424 3426 3438
3443 3521 3548 3662 3741 3790 3791 4280 4289 5380 5414
5434 5943



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