BIBLIOGRAPHY OF THE COMPUTER CODES LITERATURE EXAMINED BY THE RADIATION SHIELDING INFORMATION CENTER

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*Oak Ridge Computer Sciences Center

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for the
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INTRODUCTION

One of the most important functions of an information center is that of keeping abreast of literature in the area of interest. The staff of the Radiation Shielding Information Center makes a continuous effort to survey the literature to select that which may be of interest to the shielding community. Literature describing computer codes is kept separate from the general literature since indexing schemes would be quite different and the useful life of a code is comparatively short. Thus, the bibliographies of the general literature are published separately.*

This bibliography covers literature which describes not only shielding computer codes, but nuclear codes in a fringe area of shielding, and some miscellaneous information which might be of general interest. Thus this literature may be useful even though the codes which are described may not be considered suitable, or may not be available, for the codes collection.

The reports are grouped according to the originating installations, with the report number listed in alphabetical and/or numerical order. There has been no attempt to classify or categorize the reports, other than to indicate the computer for which a code was written and the programming language in which it was written, although this may be done in the future.

RSIC collects and maintains a file of documents for its own use and does not perform the service of a documentation center. In general, the literature selected for this bibliography may be obtained elsewhere. An exception made to this policy is that documentation is included in the code packages distributed by the Center.

The RSIC staff requests that the users of this bibliography call to the attention of the staff any literature which has not been covered in this issue and that RSIC be included in the external distribution of literature describing computer codes originating at their installations.

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FOA-4 A-4403-411 NOVEMBER 1964 SALOMON
A USERS MANUAL FOR SALOMON, AN IBM 7090 CODE FOR GAMMA
TRANSPORT CALCULATIONS
BY G. ENGSTROM
FORTRAN FOR IBM 7090

FOA-4 A-4411-411 JANUARY 1965 PROTOS
A MONTE CARLO PROCEDURE FOR CALCULATING THE MIGRATION OF
PROTONS TAKING ACCOUNT ONLY OF ELECTROMAGNETIC INTERACTIONS
BY C. JOHANSSON AND M. LEIMDORFER
FORTRAN II FOR IBM-7090

FOA-4 A-4436-411 JULY 1965 PROTOS
PROGRAM DESCRIPTION AND USERS MANUAL FOR PROTOS, A COMPUTER
PROGRAM FOR TREATING PROTON SLOWING DOWN DUE TO ATOMIC
COLLISIONS
BY C. JOHANSSON
FORTRAN II FOR IBM-7090

FZK - SEE NARF AND CONVAIR

GA - GENERAL ATOMIC, DIVISION OF GENERAL DYNAMICS
SAN DIEGO, CALIFORNIA

GA-3152 AUGUST 1962 GAZE-2
GAZE-2, A ONE-DIMENSIONAL, MULTIGROUP, NEUTRON DIFFUSION
THEORY CODE FOR THE IBM-7090
BY S. R. LENIHAN

GA-4132 JULY 1963 GATHER II
GATHER-II - AN IBM-7090 FORTRAN II PROGRAM FOR THE COMPUTATION OF THERMAL-NEUTRON SPECTRA AND ASSOCIATED MULTIGROUP CROSS SECTIONS
BY G. D. JOANOU, C. V. SMITH, AND H. A. VIEWEG
GA-4246 JUNE 1963 GAMBLE
GAMBLE - A PROGRAM FOR THE SOLUTION OF THE MULTIGROUP
NEUTRON-DIFFUSION EQUATIONS IN TWO DIMENSIONS, WITH
ARBITRARY GROUP SCATTERING, FOR THE IBM-7090 FORTRAN II
SYSTEM
BY J. P. DORSEY

GA-4265 SEPTEMBER 1963 GAM II
GAM-II, A B3 CODE FOR THE CALCULATION OF FAST-NEUTRON
SPECTRA AND ASSOCIATED MULTIGROUP CONSTANTS
BY G. D. JOANOU AND J. S. DUDEK
IBM 7C90

GA-4436 DECEMBER 1963 GGC II
GGC-II, A PROGRAM FOR USING THE GAM-II AND GATHER-II
SPECTRUM CODES IN PREPARING MULTIGROUP CROSS-SECTION
INPUT ON PUNCHED CARDS FOR THE GAZE, GAZED, DSN, GAPLSN,
2DXY, TDC, GAMBLE, FEVER AND GAO CODES
BY C. V. SMITH AND H. A. VIEWEG
IBM 7C90

GA-4972 MARCH 1964 GAPLSN
GAPLSN - A MODIFIED DSN PROGRAM FOR THE SOLUTION OF THE
CONE-DIMENSIONAL ANISOTROPIC TRANSPORT EQUATION
BY J. H. ALEXANDER, C. W. HINMAN, AND J. R. TRIPLETT
IBM 7C90

GA-5418 (MF) JULY 1964 CAP
A COLLIMATOR ANALYSIS PROGRAM
BY HENRY C. HONECK
FORTRAN

GA-6C96 DECEMBER 1964 HEXSCAT
GASKET
QUARTERLY PROGRESS REPORT FOR THE_PERIOD ENDING DECEMBER 31,
1964
BY J. R. BEYSTER, ET AL.

GA-6685 (MF) SEPTEMBER 1965 UNPACK
A NEUTRON CROSS SECTION DATA RETRIEVAL PROGRAM
BY C. V. SMITH AND M. K. DRAKE
FORTRAN IV AND MAP FOR IBM 7044

GAMD-2610 NOVEMBER 1961 DSN
A NEW VERSION OF DSN
BY J. H. ALEXANDER
IBM 7C90

GAMD-2797 MARCH 1962 DDB
DDB - A TWO DIMENSIONAL REACTOR DIFFUSION CODE WITH CRITI-
CALITY SEARCH AND BURNOUT OPTIONS, VOLUME I
BY J. H. ALEXANDER, C. CYL-CHAMPLIN, J. E. GRATTEAU,
P. C. KAESTNER, E. J. LESHAN, W. A. GROWDON, AND
M. H. MERRILL
HW - HANFORD ATOMIC PRODUCTS OPERATION
RICHLAND, WASHINGTON
(SEE ALSO BNWL)

HW-73381 APRIL 1962 MAC
MAC - A BULK SHIELDING CODE
BY E. G. PETERSON
IBM 7090

HW-73381 SUP.1 JANUARY 1964 MAC X-SECTS
TWO CROSS SECTION LIBRARIES FOR USE WITH MAC SHIELDING CODE
BY J. GREENBORG

HW-80246 (MF) FEBRUARY 1964 MIDAS
A SIMPLIFIED METHOD FOR PROGRAMMING A 7090 COMPUTER FOR
SIMULATION OF DYNAMIC SYSTEMS
BY R. D. BENHAM
IBM 7090

HW-8C968 (MF) MARCH 1964 HFN
USER'S MANUAL FOR HFN AND CALX CHAIN
BY E. L. KELLEY, JR.
IBM 7090

HW-83784 SEPTEMBER 1964 BREMRAO
A COMPUTER CODE FOR EXTERNAL AND INTERNAL BREMSSTRAHLUNG
CALCULATIONS
BY H. H. VAN TUYL
FORTRAN II, IBM 7090

HW-83785 SEPTEMBER 1964 ISOGEN
ISOGEN - A COMPUTER CODE FOR RADIOISOTOPE GENERATION
CALCULATIONS
BY H. H. VAN TUYL

HW-SA-3769 OCTOBER 1964 ISOGEN
RADIONUCLIDE GENERAL CALCULATIONS
BY H. H. VAN TUYL
FORTRAN FOR IBM 7090
IDO - PHILLIPS PETROLEUM
USAEC, IDAHO OPERATIONS OFFICE
IDAHO FALLS, IDAHO

IDO-16856 MAY 1963 MIST
(INTERNUC-67)
A MULTIGROUP INTERNUCLEAR SLAB TRANSPORT CODE
BY G. E. PUTNAM AND D. M. SHAPIRO
FORTRAN FOR IBM-7090

IDO-16968 APRIL 1964 TOPIC
TOPIC - A FORTRAN PROGRAM FOR CALCULATING TRANSPORT OF
PARTICLES IN CYLINDERS
BY G. E. PUTNAM

IDO-16984 JULY 1964 NS X-SECT
A MACHINE PROGRAM FOR CALCULATING SLOW NEUTRON SCATTERING
CROSS SECTIONS WITH APPLICATION TO WATER
BY H. L. MCMURRY AND L. J. GANNON

IDO-17075 SEPTEMBER 1965 CEP
A MONTE CARLO PROGRAM FOR THE CALCULATION OF FIRST-FLIGHT
ESCAPE PROBABILITIES FOR FINITE CYLINDERS
BY W. K. FOELL, C. W. BERNER, AND S. TONG
MAP FOR IBM-7040

IDO-24467 APPENDICES DECEMBER 1963 DER-029
DER-074
DER-006A
DER-013
SECONDARY GAMMA, BASIC GEOMETRY, FISSION PRODUCT BUILDUP
AND DECAY AND POINT SOURCE SUMMATION CODES
BY J. O. HOWARD AND G. M. JACKS

ISS - ISTITUTO SUPERIORE DI SANITA, LABORATORI DI FISICA
ROMA, ITALIA

ISS-64/21 JUNE 1964 ARIEL
(ORN-TR-624)
THE ARIEL PROGRAM FOR THE STUDY OF PHOTOPRODUCTION
REACTIONS IN HYDROGEN
BY G. FARCHI AND P. LANCIANI
FORTRAN IV FOR IBM-7040
JAERI - JAPAN ATOMIC ENERGY RESEARCH INSTITUTE
TOKAI RESEARCH ESTABLISHMENT

JAERI-1082            FEBRUARY 1965            KPARAM
MULTIGROUP CALCULATIONS OF KINETICS PARAMETERS IN
FAST REACTORS
BY KINICHI MORIGUCHI AND TOMOO SUZUKI
FORTRAN II, IBM 7090 AND FORTRAN IV, IBM 7044

K - SEE UCC

KAPL - KNOLLS ATOMIC POWER LABORATORY
SCHENECTADY, NEW YORK
(OPERATED FOR USAEC BY GENERAL ELECTRIC CO.)

KAPL-1549            AUGUST 1956            TRIXY
TRIXY - A COMPUTER PROGRAM FOR MULTIGROUP NUCLEAR REACTOR
CALCULATIONS IN THREE-SPACE DIMENSIONS
BY P. GREEBLER

KAPL-1724            APRIL 1957            CURE
CURE - A GENERALIZED TWO-SPACE-DIMENSION MULTIGROUP
CODING FOR THE IBM-704
BY E. L. WACHSPRESS

KAPL-2C39            JUNE 1959            TRAM
TRAM, A MONTE CARLO THERMAL NEUTRON CODE FOR THE IBM 704
BY M. A. MARTINO AND W. W. STONE

KAPL-2225            SEPTEMBER 1962          KERNEL
PROGRAMS FOR USE IN THE CALCULATION OF THE THERMAL
SCATTERING MATRIX FOR CHEMICALLY BOUND SYSTEMS
BY F. D. FEDERIGHI AND D. T. GOLDMAN
FORTRAN AND ALTAC FOR PHILCO 2000

KAPL-3C13            JUNE 1964            DRAM
A MONTE CARLO PROGRAM FOR THE CALCULATION OF CAPTURE PROB-
ABILITIES
BY G. J. HABETTER, R. A. PFEIFFER, AND J. E. TUECKE
ALTAC AND TAC FOR THE PHILCO 2000
KAPL-M-6119   FEBRUARY 1964    FICS
FICS, A PROGRAM TO COMPUTE FEW-GROUP CONSTANTS WITHIN
THE KARE DIFFUSION THEORY SYSTEM
BY D. E. GOODMAN

KAPL-M-6159    MAY 1964    SOSH I
SOSH I - A COMPUTER PROGRAM FOR SHIELDING CALCULATIONS
BY M. S. PENDERGAST, JR.

KAPL-M-6166 (MSP-4)  MAY 1964    SOSH II
SOSH II - A COMPUTER PROGRAM FOR SHIELDING CALCULATIONS
(A REVISION AND EXTENSION OF SOSH I)
BY M. S. PENDERGAST, JR.

KAPL-M-6174 (MF)    JULY 1964    MOST
A MULTIDIMENSIONAL OPTIMIZATION SCHEME
BY C. R. LUBITZ AND G. A. SHANHOLT

KAPL-M-6185 (MF)    JULY 1964    HOTSTICK
KARE AXIAL POWER DISTRIBUTION PROGRAM FOR THE PHILCO 2000
BY D. E. GOODMAN
PHILCO 2000

KAPL-M-6424 (MF)   DECEMBER 1964    ETC4A
A ONE DIMENSIONAL MONOENERGETIC TRANSPORT PROGRAM
(REAVISION II)
BY E. I. BROOKS, JR., C. W. DAWSON AND T. E. DUDLEY

KAPL-M-6424 (MF)   NOVEMBER 1964    MULE
A PROGRAM FOR MULTI-LEVEL, MULTI-CHANNEL CALCULATION OF
NEUTRON CROSS SECTIONS WITH DOPPLER AND RESOLUTION
BROADENING
BY E. J. BROOKS, JR. AND E. L. SLAGGIE

KAPL-M-6432 (MF)   NOVEMBER 1964    OSCAR
A PILE OSCILLATOR DATA REDUCTION PROGRAM FOR THE PHILCO
2CO DIGITAL COMPUTER
BY J. N. BRAZOS, B. A. GOTTSCHALK, AND A. L. LIEDEL
FORTRAN FOR IBM 704 AND PHILCO S-2000

KAPL-M-FDF-2   NOVEMBER 1962    SWAKRAUM
SWAKRAUM - A SPATIALLY DEPENDENT THERMAL SPECTRUM CODE
FOR THE PHILCO-2000
BY F. D. FEDERIGHI

KAPL-M-GES-4    MAY 1962    GAM I
GAM I - A GAMMA CROSS SECTION CODE FOR THE PHILCO
TRANSAC S-2000
BY G. E. SABIAN
KN - KAMAN NUCLEAR
COLORADO SPRINGS, COLORADO

KN-63-76(R) JUNE 1963
TGRMM
A FORTRAN PROGRAM FOR THE CALCULATION OF THE TRANSPORT
OF GAMMA RAYS BY THE METHOD OF MOMENTS
BY RICHARD E. VOGEL
IBM 1620

KOA - SEE UCC

KR - INSTITUTT FOR ATOMENERGI
KJELLER RESEARCH ESTABLISHMENT
KJELLER, NORWAY

KR-71 JUNE 1964
K-7 TRANSP
ONE GROUP NEUTRON TRANSPORT IN A HETEROGENEOUS CYLINDRI-
CALLY SYMMETRIC REACTOR CELL
BY R. J. J. STAMMLER

LA - SEE LAMS
LAMS - LOS ALAMOS SCIENTIFIC LABORATORY
LOS ALAMOS, NEW MEXICO
(OPERATED FOR THE USAEC BY THE UNIVERSITY OF CALIFORNIA)

LA-2161 MARCH 1957 FIRE
A ONE DIMENSIONAL INTERMEDIATE REACTOR COMPUTING
PROGRAM
BY C. B. MILLS AND F. BRINKLEY

LA-3264-MS MARCH 1965 RATH
RATH THERMAL ANALYSIS PROGRAMS
BY R. F. THOMAS, JR. AND M. D. J. ROBERTS
FORTRAN FOR IBM-7030, -7094

LA-3267 APRIL 1965 GAMLEG
A FORTRAN CODE TO PRODUCE MULTIGROUP CROSS SECTIONS FOR
PHOTON TRANSPORT CALCULATIONS
BY K. D. LATHROP
FORTRAN FOR IBM-7030

LA-3373 JULY 1965 DTF-IV
DTF-IV, A FORTRAN-IV PROGRAM FOR SOLVING THE MULTIGROUP
TRANSPORT EQUATION WITH ANISOTROPIC SCATTERING
BY K. D. LATHROP
FORTRAN IV FOR IBM 7030 AND 7090

LAMS-2339 AUGUST 1959 FLOCO II
FLOCO II MANUAL
BY B. CARLSON, C. S. KAZEK, JR., AND C. LEE

LAMS-2346 OCTOBER 1959 DSN, TDC
THE DSN AND TDC NEUTRON TRANSPORT CODES
BY B. CARLSON, C. LEE, AND J. WORLTON

LAMS-2346-APPENDIX I OCTOBER 1959 DSN
THE DSN CODE
BY B. CARLSON, C. LEE, AND J. WORLTON

LAMS-2346-APPENDIX II OCTOBER 1959 TDC
THE TDC CODE
BY B. CARLSON, C. LEE, AND J. WORLTON

LAMS-2856 MARCH 1963 MCS
A GENERAL MONTE CARLO NEUTRONICS CODE
BY ROBERT R. JOHNSTON
IBM 7090
FANTASIA II AND TRIPOD II - SHIELDING CODES FOR THE IBM 7090
BY HERBERT A. STEINBERG, J. HEITNER, AND R. ARONSON

ALTRAN
AN IBM-7094 TRANSLATOR FOR PHILCO-2000 SERIES CODES
BY T. M. OLSEN
FORTRAN II AND FAP FOR IBM-7094

CELCOR
APWRC-CELCOR, A FORTRAN-II PROGRAM FOR MULTIPLE LETHARGY
LEVEL PI OR DSN CELL CORRECTIONS IN CYLINDRICAL, SPHERICAL
AND ONE- OR TWO-DIMENSIONAL SLAB GEOMETRY
BY G. A. CANNON AND T. M. OLSEN

SYNFR-02
APWRC-SYNFR-02, A PI AND DSN THEORY FORTRAN-II CODE
FOR STATIC AND DYNAMIC SYNTHESIS OF TWO-DIMENSIONAL
FLUX AND REACTIVITY
BY T. M. OLSEN

SYBURN
APWRC-SYBURN, A FORTRAN-II PROGRAM FOR SYNTHESIZED TWO-
DIMENSIONAL PI OR DSN BURNUP CALCULATIONS
BY E. A. COLBETH AND T. M. OLSEN

GAMICO
APWRC-GAMICO, A MODIFICATION OF GAM-I FOR APPLICATION
TO THE ARMY PRESSURIZED WATER REACTOR CODE
BY G. A. CANNON, R. S. HUBNER, AND T. M. OLSEN

APWRC X-SECT
A PROGRAM AND CROSS-SECTION LIBRARY TAPE SYSTEM FOR THE
ARMY PRESSURIZED WATER REACTOR CODE
BY T. M. OLSEN
MND-C-2501 MAY 1961 CSDP
AP WRC--CSDP, A GENERALIZED FORTRAN II PROGRAM FOR
AUTOMATED CROSS SECTION DATA REDUCTION AND ANALYSIS
BY R. S. HUBNER

MND-MC-2856 JULY 1962 GMCM-9
GENERALIZED MONTE CARLO PROGRAM FOR NEUTRONS
BY M. KNIEDLER AND T. JORDAN.

MND-P-2726 MAY 1962 M-1
SNAP PROGRAMS - M-1 MONTE CARLO RADIOISOTOPE SHIELDING
CODE
BY M. J. KNIEDLER

MPC - COMBUSTION ENGINEERING, INC., NUCLEAR DIVISION
WINDSOR, CONNECTICUT

MPC-20 SEPTEMBER 1959 CEPTR
CEPTR - AN IBM-704 CODE TO SOLVE THE P-3 APPROXIMATION
TO THE ONE-VELOCITY TRANSPORT EQUATION IN CYLINDRICAL
GEOMETRY
BY P. B. DAITCH, B. J. MCGOVERN, AND M. SCHILDER

MR - SEE CONVAIR, NARF, AND FZK

NAA - ATOMICS INTERNATIONAL
DIVISION OF NORTH AMERICAN AVIATION, INC.
CANOGA PARK, CALIFORNIA
(SEE ALSO AI)

NAA-SR-3719 JUNE 1959 GRACE I
GRACE I - AN IBM 704-709 PROGRAM DESIGNED FOR COMPUTING
GAMMA-RAY ATTENUATION AND HEATING IN REACTOR SHIELDS
BY D. S. DUNCAN AND A. B. SPEIR
NAA-SR-7357       JUNE 1962       TYCHE
A MONTE CARLO SLOWING DOWN CODE
BY R. A. BLAINE
FORTRAN FOR IBM-7090

NAA-SR-8427       APRIL 1963       ANNEX I
ANalytic Techniques FOR THE CALCULATION OF THE ORNL
TOWER SHIELD EXPERIMENTS, PART I, ANNEX-I
BY R. S. HUBNER
FORTRAN

NAA-SR-8684       APRIL 1964       TYCHE
THE AGE OF FISSION NEUTRONS TO INDIUM RESONANCE ENERGY
IN GRAPHITE, PART II, THEORY
BY HARRY ALTER
FORTRAN FOR IBM 7090

NAA-SR-8884       JUNE 1965       CURIE
A DIGITAL COMPUTER PROGRAM FOR EXTERNAL AND INTERNAL
RADIATION DOSE CALCULATIONS
BY G. P. KENFIELD, W. R. LAHS, W. B. SAYER,
R. M. MACADAMS, AND N. A. HARRIS
FORTRAN FOR IBM-7094

NAA-SR-919C       APRIL 1964       SNAPKIN VI
THE SNAPKIN VI COMPUTER PROGRAM FOR SNAP REACTOR KINETICS
CALCULATIONS
BY W. A. RHOADES

NAA-SR-9233       APRIL 1964       QUICKIE
QUICKIE - A COMPUTER PROGRAM FOR SPATIALLY INDEPENDENT
MULTIGROUP SLOWING-DOWN AND THERMALIZATION CALCULATIONS
BY M. BOLING AND W. RHOADES

NAA-SR-9982       OCTOBER 1964      AISITE II
A DIGITAL COMPUTER PROGRAM FOR INVESTIGATION OF REACTOR
SITING, INCLUDING EXTERNAL RADIATION DOSE CALCULATIONS
BY R. A. BLAINE AND E. L. BRAMBLETT
FORTRAN II FOR IBM 7094

NAA-SR-10951      MARCH 1966       DTF-II
A ONE-DIMENSIONAL, MULTIGROUP NEUTRON TRANSPORT PROGRAM
BY W. W. ENGLE, M. A. BOLING, AND B. W. COLSTON
FORTRAN II FOR IBM-7090

NAA-SR-11231      DECEMBER 1965    CHAD
CODE TO HANDLE ANGULAR DATA
BY R. F. BERLAND
FORTRAN IV FOR IBM 7090 AND 7094
NAA-SR-MEMO-4649  NOVEMBER 1959  GRACE II
AN IBM 709 PROGRAM FOR COMPUTING GAMMA-RAY ATTENUATION
AND HEATING IN CYLINDRICAL AND SPHERICAL GEOMETRIES
BY D. S. DUNCAN AND A. B. SPEIR
FORTRAN FOR IBM 709 AND 7090

NAA-SR-MEMO-4822  MAY 1959  CLOUD
AN IBM 709 PROGRAM FOR COMPUTING GAMMA-RAY DOSE RATE FROM
A RADIOACTIVE CLOUD
BY D. S. DUNCAN, A. B. SPEIR, G. H. ANNO, AND D. C. KOLESAR
FORTRAN II FOR IBM-709

NAA-SR-MEMO-7776  OCTOBER 1962  SIG-CUM
SIG-CUM - A CODE TO TREAT ANISOTROPIC ELASTIC SCATTERING
OF NEUTRONS
BY F. D. RUDNICK AND H. J. LORENZI

NAA-SR-MEMO-8969  OCTOBER 1963  RATRAP
THE RATRAP CODE - A MODIFICATION OF THE FARSE METHOD
FOR SNAP SHIELD GEOMETRY
BY W. B. GREEN
FORTRAN

NAA-SR-MEMO-9069  OCTOBER 1963  AICRT 3
A GENERAL CODE FOR DISPLAY OF DIGITAL DATA
BY M. HOFFMAN AND W. A. RHoades
FORTRAN II FOR IBM 7090

NAA-SR-MEMO-9202  NOVEMBER 1963  S4CGCC
S4 CYLINDRICAL GEOMETRY CELL CODE
BY J. S. TEMPLE AND R. A. BLAINE
FORTRAN, IBM 7090

NAA-SR-MEMO-9423  JANUARY 1964  CAESAR
CAESAR, A MULTIGROUP, ONE DIMENSIONAL DIFFUSION EQUATION
CODE WITH CROSS SECTION AVERAGING USING ENERGY SPECTRUM
WITH ARES FOR THE RESONANCE
BY DOROTHY C. BALLER

NAA-SR-MEMO-9721  APRIL 1964  ISRCH
A BINARY SEARCH FORTRAN FUNCTION SUBPROGRAM
BY R. A. BLAINE
FORTRAN FOR IBM 7090
(USED IN TYCHE III)

NAA-SR-MEMO-9802  MAY 1964  TYCHE III
IMPROVEMENTS TO THE TYCHE MOMENTS CODE AND OPERATING
INSTRUCTIONS FOR TYCHE III
BY R. A. BLAINE
FORTRAN FOR IBM 7090
NAA-SR-MEMO-10008 (MF) JUNE 1964 MALINDA
MANIPULATION AND LISTING OF NUCLEAR DATA
BY D. W. ROEDER
FORTRAN II FOR IBM 7090 OR 7094

NAA-SR-MEMO-10421 (MF) SEPTEMBER 1964 AVR
A METHOD OF CALCULATING ANNULAR VOID REACTIVITY EFFECTS
IN CYLINDRICAL REACTORS
BY R. H. NORMAN, D. G. OLIVER, AND W. R. CASTLE

NAA-SR-MEMO-10544 NOVEMBER 1964 MAG
A PROGRAM TO PREPARE FAST GROUP CROSS SECTIONS IN THE
DTF FORMAT
BY R. S. HUBNER
FORTRAN II FOR IBM 7090

NAA-SR-MEMO-10557 (PT.1) (MF) OCTOBER 1964 COLEFF
MONTE CARLO EVALUATION OF COLLIMATOR EFFICIENCY. PART 1.
DESCRIPTION OF THE CLUB COMPUTER CODE
BY W. B. GREEN AND R. S. HUBNER
FORTRAN AND FAP FOR IBM-7094

NAA-SR-MEMO-10557 (PT.2) (MF) OCTOBER 1964 COLEFF
MONTE CARLO EVALUATION OF COLLIMATOR EFFICIENCY PART 2.
LISTING OF THE CLUB CODE
BY W. B. GREEN AND R. S. HUBNER
FORTRAN AND FAP FOR IBM-7094

NAA-SR-MEMO-10881 (MF) JANUARY 1965 ANNEX III
ANALYTIC TECHNIQUES FOR THE CALCULATION OF THE ORNL TOWER
SHIELD EXPERIMENTS, PART III, ANNEX 3
BY R. S. HUBNER
FORTRAN II, IBM 7090

NAA-SR-MEMO-10922 JANUARY 1965 SHOE
A SHIELD WEIGHT OPTIMIZATION CODE
BY R. L. BERNICK
FORTRAN FOR IBM-7094

NAA-SR-MEMO-11516 JULY 1965 OPEX
THE OPEX SHIELD OPTIMIZATION CODE
BY R. L. BERNICK
FORTRAN FOR IBM 7090

NAA-SR-TDR-5772 OCTOBER 1960 FARSE
FARSE - A FIRST ORDER APPROXIMATION OF REACTOR SHIELDS
FOR SNAP SYSTEMS, PART I, NON-SCATTERED DOSE
BY K. ROONEY AND M. BOLING
FORTRAN
A MONTE CARLO MULTIBEND DUCT PROCEDURE
BY D. G. COLLINS
FAP

RADIATION RESISTANT COMBAT VEHICLE INVESTIGATION - FINAL
REPORT, VOLUME III - MONTE CARLO MULTILAYER SLAB GEOMETRY
SHIELDING CODE C-18
BY M. B. WELLS
FAP

A MONTE CARLO PROCEDURE FOR RADIATION TRANSPORT AND
HEATING STUDIES
BY M. B. WELLS AND C. F. MALONE
FORTRAN, IBM-7090

MONTE CARLO CALCULATIONS OF ENERGY DEPOSITIONS AND RADIATION TRANSPORT, VOL. 1 - VALIDATION OF COHORT CODES
BY D. G. COLLINS AND T. W. DEVRIES
FORTRAN/FAP

MONTE CARLO CALCULATIONS OF ENERGY DEPOSITIONS AND RADIATION TRANSPORT, VOL. 2 - UTILIZATION OF COHORT CODES
BY D. G. COLLINS AND T. W. DEVRIES
FORTRAN AND FAP

RADIOLOGICAL ARMOR PROGRAM METHODS AND DATA COMPILATION, VOLUME 5A. COMPUTER PROCEDURES. SLAB PENETRATION AND REFLECTION CALCULATION
BY J. R. STOKES AND J. L. HUNTER
FAP, IBM 7090

RADIOLOGICAL ARMOR PROGRAM METHODS AND DATA COMPILATION, VOLUME 5A. COMPUTER PROCEDURES. SLAB PENETRATION AND REFLECTION CALCULATION - PROGRAMMERS MANUAL SUPPLEMENT
BY J. L. HUNTER
FOR IBM 7090

RADIOLOGICAL ARMOR PROGRAM METHODS AND DATA COMPILATION, VOLUME 5B. COMPUTER PROCEDURES. COMBINE TRANSMISSION CALCULATION (E20)
BY R. F. FALKENBURY, J. L. HUNTER, AND J. R. STOKES
FORTRAN IV FOR IBM 7090
FZK-2CC-5B SUPP  JUNE 1965  COMBINE (E20)
RADIOLOGICAL ARMOR PROGRAM METHODS AND DATA COMPILATION,
VOLUME 5B COMPUTER PROCEDURES. COMBINE TRANSMISSION
CALCULATION (E20) - PROGRAMMERS MANUAL SUPPLEMENT
BY J. L. HUNTER
FORTRAN IV FOR IBM 7090

FZK-2CC-5C  JUNE 1965  COMBINE (F29)
RADIOLOGICAL ARMOR PROGRAM METHODS AND DATA COMPILATION,
VOLUME 5C. COMPUTER PROCEDURES. COMBINE REFLECTION
CALCULATION
BY R. F. FALKENBURY AND J. L. HUNTER
FORTRAN II FOR IBM 7090

FZK-2CC-5C SUPP  JUNE 1965  COMBINE (F29)
RADIOLOGICAL ARMOR PROGRAM METHODS AND DATA COMPILATION,
VOLUME 5C. COMPUTER PROCEDURES. COMBINE REFLECTION
CALCULATION -- PROGRAMMERS MANUAL SUPPLEMENT
BY J. L. HUNTER
FORTRAN II FOR IBM 7090

FZK-234  JUNE 1965  SPARC (E59)
COMPUTER PROCEDURE. SLAB PENETRATION AND REFLECTION
CALCULATION
BY J. R. STOKES AND J. L. HUNTER
FORTRAN II FOR IBM 7090 AND 7094

FZK-234 SUPP  JUNE 1965  SPARC (E59)
COMPUTER PROCEDURE. SLAB PENETRATION AND REFLECTION
CALCULATION - PROGRAMMERS MANUAL SUPPLEMENT
BY J. L. HUNTER
FORTRAN II FOR IBM 7090

FZK-235  JUNE 1965  COMBINE (E91)
COMPUTER PROCEDURE. COMBINE TRANSMISSION CALCULATION
BY R. F. FALKENBURY, J. L. HUNTER, AND J. R. STOKES
FORTRAN II FOR IBM 7090

FZK-235 SUPP  JUNE 1965  COMBINE (E91)
COMPUTER PROCEDURE. COMBINE TRANSMISSION CALCULATION --
PROGRAMMERS MANUAL SUPPLEMENT
BY J. L. HUNTER
FORTRAN II FOR IBM 7090
NASA 4—NASA LEWIS RESEARCH CENTER  
CLEVELAND, OHIO

NASA TM-X-52166  1966  LPSC
THE LEWIS PROTON SHIELDING CODE  
BY R. I. HILDEBRAND AND H. E. RENKEL  
FORTRAN IV FOR IBM 7094

NASA 5—NASA LANGLEY RESEARCH CENTER  
HAMPTON, VIRGINIA

NASA TN D-2659  MARCH 1965  SCOTT  
ELECTRON-BREMSSTRAHNUNG DIFFERENTIAL CROSS SECTIONS FOR  
THIN AND THICK TARGETS  
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NUC - NUCLEAR ENGINEERING DEPARTMENT
PENNSYLVANIA STATE UNIVERSITY
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NUC E 11 SEPTEMBER 1962 HISPEC
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ORNL - OAK RIDGE NATIONAL LABORATORY
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RP - SEE AAEC

RPI - RENSSELAER POLYTECHNIC INSTITUTE
TROY, NEW YORK

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RRA - RADIATION RESEARCH ASSOCIATES, INC.
FORT WORTH, TEXAS

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SM - MISSILE AND SPACE SYSTEMS DIVISION
DOUGLAS AIRCRAFT COMPANY, INC.
SANTA MONICA, CALIFORNIA

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TID - TECHNICAL INFORMATION DIVISION
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OAK RIDGE, TENNESSEE

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RISLEY, WARRINGTON, LANCASHIRE

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SAN FRANCISCO, CALIFORNIA

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WADC - WRIGHT AIR DEVELOPMENT CENTER, USAF,
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

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WANL - WESTINGHOUSE ELECTRIC CORPORATION
ASTRONUCLEAR LABORATORY
PITTSBURGH 36, PENNSYLVANIA

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WAPD - BETTIS ATOMIC POWER LABORATORY
PITTSBURGH, PENNSYLVANIA
(OPERATED FOR THE USAEC BY WESTINGHOUSE ELECTRIC CORP.)

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