



# **MCNPX™ USER'S MANUAL**

Version 2.3.0

Laurie S. Waters, Editor

# **McnpX 27 Manual**

**Xie George Xu, Keith F. Eckerman**



## **Mcnp 27 Manual:**

**Handbook of Anatomical Models for Radiation Dosimetry** Xie George Xu, Keith F. Eckerman, 2009-09-01 Over the past few decades the radiological science community has developed and applied numerous models of the human body for radiation protection diagnostic imaging and nuclear medicine therapy The Handbook of Anatomical Models for Radiation Dosimetry provides a comprehensive review of the development and application of these computational models Proton Therapy Physics, Second Edition Harald Paganetti, 2018-11-19 Expanding on the highly successful first edition this second edition of Proton Therapy Physics has been completely restructured and updated throughout and includes several new chapters Suitable for both newcomers in medical physics and more seasoned specialists in radiation oncology this book provides an in depth overview of the physics of this radiation therapy modality eliminating the need to dig through information scattered across medical physics literature After tracing the history of proton therapy the book explores the atomic and nuclear physics background necessary for understanding proton interactions with tissue The text then covers dosimetry including beam delivery shielding aspects computer simulations detector systems and measuring techniques for reference dosimetry Important for daily operations acceptance testing commissioning quality assurance and monitor unit calibrations are outlined The book moves on to discussions of treatment planning for single and multiple field uniform doses dose calculation concepts and algorithms and precision and uncertainties for nonmoving and moving targets Imaging for treatment guidance as well as treatment monitoring is outlined Finally the biological implications of using protons from a physics perspective are discussed This book is an ideal practical guide for physicians dosimetrists radiation therapists and physicists who already have some experience in radiation oncology It is also an invaluable reference for graduate students in medical physics programs physicians in their last year of medical school or residency and those considering a career in medical physics Features Updated with the latest technologies and methods in the field covering all delivery methods of proton therapy including beam scanning and passive scattering Discusses clinical aspects such as treatment planning and quality assurance Offers insight on the past present and future of proton therapy from a physics perspective

*Nondestructive Assay of Nuclear Materials for Safeguards and Security* William H. Geist, Peter A. Santi, Martyn T. Swinhoe, 2024-10-22 This open access book describes the nondestructive assay techniques that are used for the measurement of nuclear material primarily uranium and plutonium for nuclear material accountancy purposes It is a substantial revision to the so called PANDA manual that has been a standard reference since its publication in 1991 The book covers the origin and interactions of gamma rays and neutrons as they affect nuclear measurements and also describes the theory and practice of calorimetry The book gives a description of many instruments based on these techniques that are applied in the field Although the basic physics has not changed since PANDA was first published the last thirty years have seen many advances in analysis methods instrumentation and applications The basic descriptions of the origin and interactions of radiation have

been updated and include newer references There have been extensive revisions of the description of gamma detection methods attenuation correction procedures and analysis methods including for the measurement of uranium enrichment and the determination of plutonium isotopic composition Extensive revisions and additions have also been made to the description of neutron detectors and to the explanation of neutron coincidence techniques The chapter on neutron multiplicity techniques is a new addition to this edition The applications of gamma and neutron techniques have been completely overhauled to remove obsolete systems and to include many current applications The values of and references to nuclear data have been updated This updated edition is an essential reference for academic researchers and practitioners in the field This is an open access book      **Monte Carlo Techniques in Radiation Therapy** Frank Verhaegen,Joao

Seco,2021-11-29 About ten years after the first edition comes this second edition of Monte Carlo Techniques in Radiation Therapy Introduction Source Modelling and Patient Dose Calculations thoroughly updated and extended with the latest topics edited by Frank Verhaegen and Joao Seco This book aims to provide a brief introduction to the history and basics of Monte Carlo simulation but again has a strong focus on applications in radiotherapy Since the first edition Monte Carlo simulation has found many new applications which are included in detail The applications sections in this book cover the following Modelling transport of photons electrons protons and ions Modelling radiation sources for external beam radiotherapy Modelling radiation sources for brachytherapy Design of radiation sources Modelling dynamic beam delivery Patient dose calculations in external beam radiotherapy Patient dose calculations in brachytherapy Use of artificial intelligence in Monte Carlo simulations This book is intended for both students and professionals both novice and experienced in medical radiotherapy physics It combines overviews of development methods and references to facilitate Monte Carlo studies      **Spent Nuclear Fuel and Accelerator-Driven Subcritical Systems** Vinod Kumar Verma,Karel

Katovsky,2018-10-12 This book offers a comprehensive overview of the reprocessing of spent nuclear fuels and discusses the applications of radiation particularly spallation neutrons and gamma rays The unspent nuclear fuel of a reactor amounts to roughly 95 per cent of the loaded fuel It contains both fertile and fissile fuels minor and higher actinides and radioactive fission products In 2015 out of approximately 4 million metric tons of spent fuel only 90 000 metric tons was reprocessed worldwide the rest was either sent to repositories kept for cooling down or put on a waiting list for future reprocessing With regard to the direct reutilization of spent nuclear fuel the new technique of Energy Amplifiers has attracted considerable attention among the nuclear energy community Presenting extensive information on this technique the book is divided into eight major sections i spent nuclear fuel and alternative transmutation methods ii general concept of accelerator driven subcritical systems ADSS iii spallation neutron sources and the possibility of incineration iv requirements for nuclear data v transmutation of spent nuclear fuel and extension of the fuel cycle vi spallation neutron production facilities vii major experimental facilities for ADSS and viii software tools for the design and modelling of ADSS The book is ideally suited as a

textbook for graduate students as well as a reference guide for researchers and practitioners

**Reactor Dosimetry in the 21st Century** Jan Wagemans, 2003 This book presents the state of the art in reactor dosimetry as applied to nuclear power plants and to high performance research reactors accelerator driven systems and spallation sources The reader will also find the latest advances in computer code development for radiation transport and shielding In addition the book focuses on radiation measurement techniques

**Thorium Energy for the World** Jean-Pierre Revol, Maurice Bourquin, Yacine Kadi, Egil Lillestol, Jean-Christophe de Mestral, Karel Samec, 2016-04-05 The Thorium Energy Conference ThEC13 gathered some of the world's leading experts on thorium technologies to review the possibility of destroying nuclear waste in the short term and replacing the uranium fuel cycle in nuclear systems with the thorium fuel cycle in the long term The latter would provide abundant reliable and safe energy with no CO<sub>2</sub> production no air pollution and minimal waste production The participants representatives of 30 countries included Carlo Rubbia Nobel Prize Laureate in physics and inventor of the Energy Amplifier Jack Steinberger Nobel Prize Laureate in physics Hans Blix former Director General of the International Atomic Energy Agency IAEA Rolf Heuer Director General of CERN Pascal Couchepin former President of the Swiss Confederation and Claude Haegi President of the FEDRE to name just a few The ThEC13 proceedings are a source of reference on the use of thorium for energy generation They offer detailed technical reviews of the status of thorium energy technologies from basic R D to industrial developments They also describe how thorium can be used in critical reactors and in subcritical accelerator driven systems ADS answering the important questions Why is thorium so attractive and what is the role of innovation in particular in the nuclear energy domain What are the national and international R D programs on thorium technologies and how are they progressing ThEC13 was organized jointly by the international Thorium Energy Committee iThEC an association based in Geneva and the International Thorium Energy Organisation IThEO It was held in the Globe of Science and Innovation at the European Organization for Nuclear Research CERN Geneva Switzerland in October 2013

**Proton Therapy Physics** Harald Paganetti, 2016-04-19 Proton Therapy Physics goes beyond current books on proton therapy to provide an in depth overview of the physics aspects of this radiation therapy modality eliminating the need to dig through information scattered in the medical physics literature After tracing the history of proton therapy the book summarizes the atomic and nuclear physics background necessary for understanding proton interactions with tissue It describes the physics of proton accelerators the parameters of clinical proton beams and the mechanisms to generate a conformal dose distribution in a patient The text then covers detector systems and measuring techniques for reference dosimetry outlines basic quality assurance and commissioning guidelines and gives examples of Monte Carlo simulations in proton therapy The book moves on to discussions of treatment planning for single and multiple field uniform doses dose calculation concepts and algorithms and precision and uncertainties for nonmoving and moving targets It also examines computerized treatment plan optimization methods for in vivo dose or beam range verification the safety of patients and

operating personnel and the biological implications of using protons from a physics perspective The final chapter illustrates the use of risk models for common tissue complications in treatment optimization Along with exploring quality assurance issues and biological considerations this practical guide collects the latest clinical studies on the use of protons in treatment planning and radiation monitoring Suitable for both newcomers in medical physics and more seasoned specialists in radiation oncology the book helps readers understand the uncertainties and limitations of precisely shaped dose distribution XXIX СИМПОЗИЈУМ ДЗЗСЦГ Сребрно језеро 27- 29. септембар 2017. године Др Јелена Станковић Петровић, Др Гордана Пантелић, 2017-10-06 *Radiation Therapy Dosimetry* Arash Darafsheh, 2021-03-08 This comprehensive book covers the everyday use and underlying principles of radiation dosimeters used in radiation oncology clinics It provides an up to date reference spanning the full range of current modalities with emphasis on practical know how The main audience is medical physicists radiation oncology physics residents and medical physics graduate students The reader gains the necessary tools for determining which detector is best for a given application Dosimetry of cutting edge techniques from radiosurgery to MRI guided systems to small fields and proton therapy are all addressed Main topics include fundamentals of radiation dosimeters brachytherapy and external beam radiation therapy dosimetry and dosimetry of imaging modalities Comprised of 30 chapters authored by leading experts in the medical physics community the book Covers the basic principles and practical use of radiation dosimeters in radiation oncology clinics across the full range of current modalities Focuses on providing practical guidance for those using these detectors in the clinic Explains which detector is more suitable for a particular application Discusses the state of the art in radiotherapy approaches from radiosurgery and MR guided systems to advanced range verification techniques in proton therapy Gives critical comparisons of dosimeters for photon electron and proton therapies

**Advanced Monte Carlo for Radiation Physics, Particle Transport Simulation and Applications** Andreas Kling, Fernando J.C. Barao, Masayuki Nakagawa, Luis Tavora, Pedro Vaz, 2014-02-22 This book focusses on the state of the art of Monte Carlo methods in radiation physics and particle transport simulation and applications the latter involving in particular the use and development of electron gamma neutron gamma and hadronic codes Besides the basic theory and the methods employed special attention is paid to algorithm development for modeling and the analysis of experiments and measurements in a variety of fields ranging from particle to medical physics *Atmospheric Ionizing Radiation (AIR)*, 2003

Smart Sensors at the IoT Frontier Hiroto Yasuura, Chong-Min Kyung, Yongpan Liu, Youn-Long Lin, 2017-05-29 This book describes technology used for effective sensing of our physical world and intelligent processing techniques for sensed information which are essential to the success of Internet of Things IoT The authors provide a multidisciplinary view of sensor technology from materials process circuits to big data domains and they showcase smart sensor systems in real applications including smart home transportation medical environmental agricultural etc Unlike earlier books on sensors this book provides a global view on smart sensors covering abstraction levels from device circuit systems and algorithms

Proceedings of the Sixth Meeting of the Task Force on Shielding Aspects of Accelerators, Targets and Irradiation Facilities, 2004 Particle accelerators are used today for an increasing range of scientific and technological applications They are very powerful tools for investigating the origin and structure of matter and for improving understanding of the interaction of radiation with materials including the transmutation of nuclides and the beneficial or harmful effects of radiation Particle accelerators are used to identify properties of molecules that can be used in pharmacy for medical diagnosis and therapy and for biophysics studies Particle accelerators must be operated in safe ways that protect the operators the population and the environment New technological and research applications give rise to new issues in radiation shielding These workshop proceedings review the state of the art in radiation shielding of accelerator facilities and irradiated targets They also evaluate advancements and discuss the additional developments required to meet radiation protection needs OECD

**Polymer Electrolyte Membrane and Direct Methanol Fuel Cell Technology** Christoph Hartnig, Christina Roth, 2012-02-20 Polymer electrolyte membrane fuel cells PEMFCs and direct methanol fuel cells DMFCs technology are promising forms of low temperature electrochemical power conversion technologies that operate on hydrogen and methanol respectively Featuring high electrical efficiency and low operational emissions they have attracted intense worldwide commercialization research and development efforts These R D efforts include a major drive towards improving materials performance fuel cell operation and durability In situ characterization is essential to improving performance and extending operational lifetime through providing information necessary to understand how fuel cell materials perform under operational loads Polymer Electrolyte Membrane and Direct Methanol Fuel Cell Technology Volume 2 details in situ characterization including experimental and innovative techniques used to understand fuel cell operational issues and materials performance Part I reviews enhanced techniques for characterization of catalyst activities and processes such as X ray absorption and scattering advanced microscopy and electrochemical mass spectrometry Part II reviews characterization techniques for water and fuel management including neutron radiography and tomography magnetic resonance imaging and Raman spectroscopy Finally Part III focuses on locally resolved characterization methods from transient techniques and electrochemical microscopy to laser optical methods and synchrotron radiography With its international team of expert contributors Polymer electrolyte membrane and direct methanol fuel cell technology will be an invaluable reference for low temperature fuel cell designers and manufacturers as well as materials science and electrochemistry researchers and academics Polymer electrolyte membrane and direct methanol fuel cell technology is an invaluable reference for low temperature fuel cell designers and manufacturers as well as materials science and electrochemistry researchers and academics Details in situ characterisation of polymer electrolyte membrane fuel cells PEMFCs and direct methanol fuel cells DMFCs including the experimental and innovative techniques used to understand fuel cell operational issues and materials performance Examines enhanced techniques for characterisation of catalyst activities and processes such as X ray absorption

and scattering advanced microscopy and electrochemical mass spectrometry Reviews characterisation techniques for water and fuel management including neutron radiography and tomography and comprehensively covers locally resolved characterisation methods from transient techniques to laser optical methods

**Nuclear Power Plant Design and Analysis Codes** Jun Wang,Xin Li,Chris Allison,Judy Hohorst,2020-11-10 Nuclear Power Plant Design and Analysis Codes Development Validation and Application presents the latest research on the most widely used nuclear codes and the wealth of successful accomplishments which have been achieved over the past decades by experts in the field Editors Wang Li Allison and Hohorst and their team of authors provide readers with a comprehensive understanding of nuclear code development and how to apply it to their work and research to make their energy production more flexible economical reliable and safe Written in an accessible and practical way each chapter considers strengths and limitations data availability needs verification and validation methodologies and quality assurance guidelines to develop thorough and robust models and simulation tools both inside and outside a nuclear setting This book benefits those working in nuclear reactor physics and thermal hydraulics as well as those involved in nuclear reactor licensing It also provides early career researchers with a solid understanding of fundamental knowledge of mainstream nuclear modelling codes as well as the more experienced engineers seeking advanced information on the best solutions to suit their needs Captures important research conducted over last few decades by experts and allows new researchers and professionals to learn from the work of their predecessors Presents the most recent updates and developments including the capabilities limitations and future development needs of all codes Includes applications for each code to ensure readers have complete knowledge to apply to their own setting

**Monte Carlo Techniques in Radiation Therapy** Joao Seco,Frank Verhaegen,2016-04-19 Modern cancer treatment relies on Monte Carlo simulations to help radiotherapists and clinical physicists better understand and compute radiation dose from imaging devices as well as exploit four dimensional imaging data With Monte Carlo based treatment planning tools now available from commercial vendors a complete transition to Monte Carlo base

Comprehensive Nuclear Materials,2020-07-22 Materials in a nuclear environment are exposed to extreme conditions of radiation temperature and or corrosion and in many cases the combination of these makes the material behavior very different from conventional materials This is evident for the four major technological challenges the nuclear technology domain is facing currently i long term operation of existing Generation II nuclear power plants ii the design of the next generation reactors Generation IV iii the construction of the ITER fusion reactor in Cadarache France iv and the intermediate and final disposal of nuclear waste In order to address these challenges engineers and designers need to know the properties of a wide variety of materials under these conditions and to understand the underlying processes affecting changes in their behavior in order to assess their performance and to determine the limits of operation Comprehensive Nuclear Materials Second Edition Seven Volume Set provides broad ranging validated summaries of all the major topics in the field of nuclear material research for fission as well as fusion



reactor systems Attention is given to the fundamental scientific aspects of nuclear materials fuel and structural materials for fission reactors waste materials and materials for fusion reactors The articles are written at a level that allows undergraduate students to understand the material while providing active researchers with a ready reference resource of information Most of the chapters from the first Edition have been revised and updated and a significant number of new topics are covered in completely new material During the ten years between the two editions the challenge for applications of nuclear materials has been significantly impacted by world events public awareness and technological innovation Materials play a key role as enablers of new technologies and we trust that this new edition of Comprehensive Nuclear Materials has captured the key recent developments Critically reviews the major classes and functions of materials supporting the selection assessment validation and engineering of materials in extreme nuclear environments Comprehensive resource for up to date and authoritative information which is not always available elsewhere even in journals Provides an in depth treatment of materials modeling and simulation with a specific focus on nuclear issues Serves as an excellent entry point for students and researchers new to the field      *Radiation Protection* A. Méndez-Vilas,2004      *Isotope Production And Applications In The 21st Century, Proceedings Of The 3rd International Conference On Isotopes* Nigel R Stevenson,2000-10-09 The Third International Conference on Isotopes focused on the theme of Isotope Production and Applications in the 21st Century and included presentations by several eminent experts in this field The three central subjects Isotopes in Medicine Industry and the Environment were supplemented by presentations on the latest developments in isotope production and synthesis research into radiopharmaceuticals applications in agriculture analytical applications radiocarbon dating AMS and PET Various views on the future directions for producers and users of isotopes were considered at this multi disciplinary meeting

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