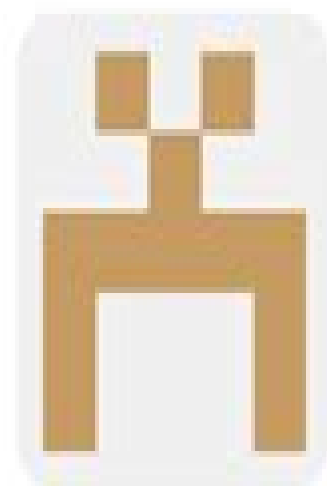


svanmaer/ MCNPX_visualizer



A visualizer based on POV-Ray to create visualizations of MCNPX input files without the need for MCNPX (created by Nick...

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Mcnpx 27 Manual

Kathleen Armour



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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 [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 **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 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 **JJAP**, 2006

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 Transactions of the American Nuclear Society American Nuclear Society, 1958 Japanese Journal of

Applied Physics ,2006 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 **Solid State Dosimetry** Francesco D'Errico,2006 **Beam Halo Dynamics, Diagnostics, and Collimation** Jie Wei,Wolfram Fischer,Pamela Manning,2003-12-17 This book documents comprehensive reviews and state of the art studies in the dynamics diagnostics and collimation of charged particle beam halo and in beam beam interaction Challenges and solutions to major accelerator facilities in Europe Asia and America in the domain of high intensity high energy and high brightness charged particles are presented Latest breakthroughs in physical analysis engineering design and experimental tests are included Shielding Aspects of Accelerators, Targets and Irradiation Facilities - SATIF 6 NEA Staff,2004 Particle accelerators are having an increasingly important impact on research technology and lifestyle Today they cover a wide range of applications including material science and medical applications In recent years requirements from new technological and research applications have emerged and the number of accelerator facilities has significantly increased Their parameters such as the beam energy beam currents and intensities targets composition etc vary widely giving rise to new radiation shielding aspects and problems The main objectives of the SATIF Meetings are to promote the exchange of information among experts in the field of accelerator shielding and related topics identify areas where international co operation can be fruitful and carry on a program of work in order to achieve progress in specific priority areas Radiation Protection A. Méndez-Vilas,2004 **International Conference on Nuclear Data for Science and Technology** Robert C. Haight,2005-06-24 All papers were peer reviewed This conference focused on the broad field of nuclear data their production dissemination and testing with the goal of providing reliable data for applications such a nuclear fission and fusion energy accelerators spallation neutron sources nuclear medicine environment space non proliferation nuclear safety astrophysics and cosmology and basic research Atmospheric Ionizing Radiation (AIR): Analysis, Results, and Lessons Learned From the June 1997 ER-2 Campaign J. W. Wilson,2003 **Radiation Protection and Shielding** ,2005 **Radiation Protection and Shielding** Isabel F. Gonçalves,2005 *The Modern Technology of Radiation Oncology* Jake Van Dyk,1999 Details technology associated with radiation oncology emphasizing design of all

equipment allied with radiation treatment Describes procedures required to implement equipment in clinical service covering needs assessment purchase acceptance and commissioning and explains quality assurance issues Also addresses less common and evolving technologies For medical physicists and radiation oncologists as well as radiation therapists dosimetrists and engineering technologists Includes bandw medical images and photos of equipment Paper edition unseen 145 95 Annotation copyrighted by Book News Inc Portland OR

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