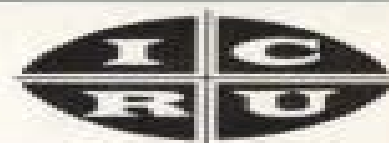


Stopping Powers and Ranges for Protons and Alpha Particles



INTERNATIONAL COMMISSION
ON RADIATION UNITS
AND MEASUREMENTS

Stopping Powers And Ranges For Protons And Alpha Particles Icrp Report 49

**Hooshang Nikjoo, Shuzo
Uehara, Dimitris Emfietzoglou**



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Introduction to Radiation Protection Dosimetry Jozef Sabol, Baoshan Weng, 1995 One essential characteristic of life is the exchange of matter and energy between organisms and their environment Radiation is a form of energy that has always been around in nature and will forever be the companion of human beings throughout life In order to assess the impact of radiation exposures properly it is essential to introduce appropriate quantities and units which can then be used for quantification of exposures from various sources In principle radiation protection is mainly aimed at controlling radiation exposure while radiation dosimetry deals primarily with the measurement of relevant radiation quantities especially doses This book is divided into two parts The first contains up to date definitions of the most significant radiation quantities including their interpretation In the second part the exposures of both individuals and population at large to various types of natural and man made sources are compared and discussed The concept of quantities and units as well as analysis of exposure due to various sources in our environment is based on the latest highly regarded authentic sources such as ICRU ICRP IAEA and particularly UNSCEAR reports and recommendations The material reflects the latest review of the current terminology in radiation protection dosimetry and the contemporary assessment of radiation exposures of the population radiation workers and patients

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 **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

Interaction of Radiation with Matter Hooshang Nikjoo, Shuzo Uehara, Dimitris Emfietzoglou, 2016-04-19 Interaction of Radiation with Matter focuses on the physics of the interactions of ionizing radiation in living matter and the Monte Carlo simulation of radiation tracks Clearly progressing from an elementary level to the state of the art the text explores the classical physics of track description as well as modern aspects based on condensed mat **Radiation Oncology - Principles, Precepts and Practice** Anusheel Munshi, Tharmarnadar Ganesh, Biplab Sarkar, Atul Sharma, Indranil Mallick, Manur Gururajachar Janaki, Bidhu K. Mohanti, 2025-05-02 This book covers various aspects of radiation oncology its principles and practice in the management of cancer types and sites in the human body The book is in two volumes Volume One is devoted to basic and technical aspects Volume Two provides the clinical basis of modern radiation oncology The chapters focus on an evidence based multidisciplinary approach to cancer management covering the indications contouring treatment technique outcomes and toxicities related to radiotherapy for various cancer sites It includes separate chapters on radiation biology physics and palliative care Additionally the book also addresses contemporary topics including artificial intelligence in radiation oncology the role of protons heavy ions and the conduct of clinical trials in radiation oncology The book is a relevant resource for busy radiation oncology physicians practitioners and trainees residents fellows seeking to utilize evidence in the literature to guide the management of radiation therapy patients The book can be valuable for other disciplines such as surgical oncology medical oncology palliative medicine in cancer management including basic scientists

working in both developed and developing countries Monte Carlo Techniques in Radiation Therapy Joao Seco, Frank Verhaegen, 2021-11-14 Thoroughly updated throughout this second edition of Monte Carlo Techniques in Radiation Therapy Applications to Dosimetry Imaging and Preclinical Radiotherapy edited by Joao Seco and Frank Verhaegen explores the use of Monte Carlo methods for modelling various features of internal and external radiation sources Monte Carlo methods have been heavily used in the field of radiation therapy in applications such as dosimetry imaging radiation chemistry modelling of small animal irradiation units etc The aim of this book is to provide a compendium of the Monte Carlo methods that are commonly used in radiation therapy applications which will allow students postdoctoral fellows and university professors to learn and teach Monte Carlo techniques This book provides concise but detailed information about many Monte Carlo applications that cannot be found in any other didactic or scientific book This second edition contains many new chapters on topics such as Monte Carlo studies of prompt gamma emission Developments in proton imaging Monte Carlo for cone beam CT imaging Monte Carlo modelling of proton beams for small animal irradiation Monte Carlo studies of microbeam radiation therapy Monte Carlo in micro and nano dosimetry GPU based fast Monte Carlo simulations for radiotherapy This book is primarily aimed at students and scientists wishing to learn and improve their knowledge of Monte Carlo methods in radiation therapy Intermediate Physics for Medicine and Biology Russell K. Hobbie, Bradley J Roth, 2007-03-12 This text bridges the gap between introductory physics and its application to the life sciences It is intended for advanced undergraduates and beginning graduate students The Fourth Edition is updated to include new findings discussion of stochastic processes and expanded coverage of anatomy and biology The text includes many problems to test the student s understanding and chapters include useful bibliographies for further reading Its minimal prerequisites and wide coverage make it ideal for self study The fourth edition is updated throughout to reflect new developments **Radioactive Releases in the Environment** John R. Cooper, Keith Randle, Ranjeet S. Sokhi, 2003-05-07 This text brings together in one single comprehensive reference the fundamentals of radioactivity It uniquely fills the gap in the market as no other books deal with environmental radioactivity to this degree Timely and invaluable as the studies of environmental processes and the awareness of the impact of human activity on our environment are increasing Links all three main aspects of environmental radioactivity Principles Transport and Measurement Useful to a wide readership students lecturers researchers companies and environmental consultants *Radiochromic Film* Indra J. Das, 2017-10-30 This book provides a first authoritative text on radiochromic film covering the basic principles technology advances practical methods and applications It focuses on practical uses of radiochromic film in radiation dosimetry for diagnostic x rays brachytherapy radiosurgery external beam therapies photon electron protons stereotactic body radiotherapy intensity modulated radiotherapy and other emerging radiation technologies The expert authors address basic concepts advantages and the main applications including kilovoltage brachytherapy megavoltage electron beam proton beam skin dose in vivo dosimetry postal and clinical trial dosimetry The final chapters

discuss the state of the art in microbeam synchrotron radiation and ultraviolet radiation dosimetry **Medical Radiation Dosimetry** Brian J McParland, 2013-11-11

Accurate radiation dosimetry is a requirement of radiation oncology diagnostic radiology and nuclear medicine. It is necessary so as to satisfy the needs of patient safety, therapeutic and diagnostic optimisation and retrospective epidemiological studies of the biological effects resulting from low absorbed doses of ionising radiation. The radiation absorbed dose received by the patient is the ultimate consequence of the transfer of kinetic energy through collisions between energetic charged particles and atoms of the tissue being traversed. Thus the ability of the medical physicist to both measure and calculate accurately patient dosimetry demands a deep understanding of the physics of charged particle interactions with matter. Interestingly, the physics of charged particle energy loss has an almost exclusively theoretical basis, thus necessitating an advanced theoretical understanding of the subject in order to apply it appropriately to the clinical regime. Each year about one third of the world's population is exposed to ionising radiation as a consequence of diagnostic or therapeutic medical practice. The optimisation of the resulting radiation absorbed dose received by the patient and the clinical outcome sought, whether diagnostic or therapeutic, demands accuracy in the evaluation of the radiation absorbed doses resulting from such exposures. This requirement arises primarily from two broadly encompassing factors. The requirement in radiation oncology for a 5% or less uncertainty in the calculation and measurement of absorbed dose so as to optimise the therapeutic ratio of the probabilities of tumour control and normal tissue complications, and the establishment and further refinement of dose reference levels used in diagnostic radiology and nuclear medicine to minimise the amount of absorbed dose for a required degree of diagnostic benefit. The radiation absorbed dose is the outcome of energetic charged particles decelerating and transferring their kinetic energy to tissue. The calculation of this energy deposition, characterised by the stopping power, is unique in that it is derived entirely from theoretical principles. This dominant role of the associated theory makes its understanding fundamental to the calculation of the radiation absorbed dose to the patient. The theoretical development of charged particle energy loss recognised in medical physics textbooks is in general limited to basic derivations based upon classical theory, generally a simplified form of the Bohr theory. More advanced descriptions of, for example, the Bethe-Bloch quantum result usually do not go beyond the simple presentation of the result without full explanation of the theoretical development of the theory and consideration of its limitations, its dependencies upon the Born perturbation theory and the various correction factors needed to correct for the failures of that Born theory at higher orders. This is not appropriate for a full understanding of the theory that its importance deserves. The medical radiation physicist should be aware of the details of the theoretical derivations of charged particle energy loss in order to appreciate the levels of accuracy in tabular data provided in reports and the calculation methodologies used in modern Monte Carlo calculations of radiation dosimetry.

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