# Monte Carlo Methods for Particle Transport



Alireza Haghighat



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**Alireza Haghighat** 

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Monte Carlo Particle Transport Methods I. Lux, 2018-05-04 With this book we try to reach several more or less unattainable goals namely To compromise in a single book all the most important achievements of Monte Carlo calculations for solving neutron and photon transport problems To present a book which discusses the same topics in the three levels known from the literature and gives us useful information for both beginners and experienced readers It lists both well established old techniques and also newest findings **Monte Carlo Methods for Particle Transport** Alireza Haghighat, 2015 The Monte Carlo method has become the de facto standard in radiation transport Although powerful if not understood and used appropriately the method can give misleading results Monte Carlo Methods for Particle Transport teaches appropriate use of the Monte Carlo method explaining the method s fundamental concepts as well as its limitations Concise yet comprehensive this well organized text introduces the particle importance equation and its use for variance reduction describes general and particle transport specific variance reduction techniques presents particle transport eigenvalue issues and methodologies to address these issues explores advanced formulations based on the author's research activities discusses parallel processing concepts and factors affecting parallel performance *Particle-transport simulation* with the Monte Carlo method Leland L. Carter, 1975 Monte Carlo Methods for Particle Transport Alireza Haghighat, 2020-08-09 Fully updated with the latest developments in the eigenvalue Monte Carlo calculations and automatic variance reduction techniques and containing an entirely new chapter on fission matrix and alternative hybrid techniques This second edition explores the uses of the Monte Carlo method for real world applications explaining its concepts and limitations Featuring illustrative examples mathematical derivations computer algorithms and homework problems it is an ideal textbook and practical guide for nuclear engineers and scientists looking into the applications of the Monte Carlo method in addition to students in physics and engineering and those engaged in the advancement of the Monte Carlo methods Describes general and particle transport specific automated variance reduction techniques Presents Monte Carlo particle transport eigenvalue issues and methodologies to address these issues Presents detailed derivation of existing and advanced formulations and algorithms with real world examples from the author's research activities Particle Transport Simulation with the Monte Carlo Method Leland Lavele Carter, E. D. Cashwell, 1975 **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 Particle-transport Simulation with the Monte Carlo Method, 1975 Attention is focused on the application of the Monte Carlo method to particle transport problems with emphasis on neutron and photon transport Topics covered include sampling methods mathematical prescriptions for simulating particle transport mechanics of simulating particle transport neutron transport and photon transport A literature survey of 204 references is included GMT

Monte Carlo Particle Transport Methods I. Lux, 2018-05-04 With this book we try to reach several more or less unattainable goals namely To compromise in a single book all the most important achievements of Monte Carlo calculations for solving neutron and photon transport problems To present a book which discusses the same topics in the three levels known from the literature and gives us useful information for both beginners and experienced readers It lists both well established old techniques and also newest findings PARTICLE-TRANSPORT SIMULATION WITH THE MONTE CARLO METHOD Leland L. Carter, Edmond Darrell Cashwell, 1975 Modified Monte Carlo Procedure for Particle Transport Problems ,1978 Monte Carlo Particle Transport H. Scott, N. Gentile, R. Procassini, 2005 Monte Carlo methods are frequently used for neutron and radiation transport These methods have several advantages such as relative ease of programming and dealing with complex meshes Disadvantages include long run times and statistical noise Monte Carlo photon transport calculations also often suffer from inaccuracies in matter temperature due to the lack of implicitness In this paper we discuss the Monte Carlo algorithm as it is applied to neutron and photon transport detail the differences between neutron and photon Monte Carlo and give an overview of the ways the numerical method has been modified to deal with issues that arise in photon Monte Carlo simulations Computational Many-Particle Physics Holger Fehske, Ralf Schneider. Alexander Weiße, 2007-12-07 Looking for the real state of play in computational many particle physics Look no further This book presents an overview of state of the art numerical methods for studying interacting classical and quantum many particle systems A broad range of techniques and algorithms are covered and emphasis is placed on their implementation on modern high performance computers This excellent book comes complete with online files and updates allowing readers to stay right up to date **ERDA Energy Research Abstracts** United States. Energy Research and Development Administration, 1976 ERDA Energy Research Abstracts United States. Energy Research and Development Administration. Technical Information Center, 1976 Rare Event Simulation using Monte Carlo Methods Gerardo Rubino, Bruno Tuffin, 2009-03-18 In a probabilistic model a rare event is an event with a very small probability of occurrence The forecasting of rare events is a formidable task but is important in many areas For instance a catastrophic failure in a transport system or in a nuclear power plant the failure of an information processing system in a bank or in the communication network of a group of banks leading to financial losses Being able to evaluate the probability of rare events is therefore a critical issue Monte Carlo Methods the simulation of corresponding models are used to analyze rare events This book sets out to present the mathematical tools available for the efficient simulation of rare events Importance sampling and splitting are presented along with an exposition of how to apply these tools to a variety of fields ranging from performance

and dependability evaluation of complex systems typically in computer science or in telecommunications to chemical reaction analysis in biology or particle transport in physics Graduate students researchers and practitioners who wish to learn and apply rare event simulation techniques will find this book beneficial **Modified Monte Carlo Procedure for Particle Transport Problems** W. Matthes, Commission of the European Communities, 1978 **Heat Conduction** Vyacheslav Vikhrenko, 2011-11-30 The content of this book covers several up to date approaches in the heat conduction theory such as inverse heat conduction problems non linear and non classic heat conduction equations coupled thermal and electromagnetic or mechanical effects and numerical methods for solving heat conduction equations as well The book is comprised of 14 chapters divided into four sections In the first section inverse heat conduction problems are discuss The first two chapters of the second section are devoted to construction of analytical solutions of nonlinear heat conduction problems In the last two chapters of this section wavelike solutions are attained The third section is devoted to combined effects of heat conduction and electromagnetic interactions in plasmas or in pyroelectric material elastic deformations and hydrodynamics Two chapters in the last section are dedicated to numerical methods for solving heat conduction problems *Update* ,1986 Ionizing Radiation Effects in Electronics Marta Bagatin, Simone Gerardin, 2018-09-03 Ionizing Radiation Effects in Electronics From Memories to Imagers delivers comprehensive coverage of the effects of ionizing radiation on state of the art semiconductor devices The book also offers valuable insight into modern radiation hardening techniques The text begins by providing important background information on radiation effects their underlying mechanisms and the use of Monte Carlo techniques to simulate radiation transport and the effects of radiation on electronics. The book then Explains the effects of radiation on digital commercial devices including microprocessors and volatile and nonvolatile memories static random access memories SRAMs dynamic random access memories DRAMs and Flash memories Examines issues like soft errors total dose and displacement damage together with hardening by design solutions for digital circuits field programmable gate arrays FPGAs and mixed analog circuits Explores the effects of radiation on fiber optics and imager devices such as complementary metal oxide semiconductor CMOS sensors and charge coupled devices CCDs Featuring real world examples case studies extensive references and contributions from leading experts in industry and academia Ionizing Radiation Effects in Electronics From Memories to Imagers is suitable both for newcomers who want to become familiar with radiation effects and for radiation experts who are looking for more advanced material or to make effective use of beam time

<u>European Particle Accelerator Conference (Epac 94) (In 3 Volumes)</u> Christine Petit-jean-genaz, Vic Suller, 1994-11-26 These proceedings aim to provide a comprehensive overview of research technology and applications in the field of accelerators Contributions from the entire field of accelerators are presented including low and high energy machines and medical and industrial accelerators

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