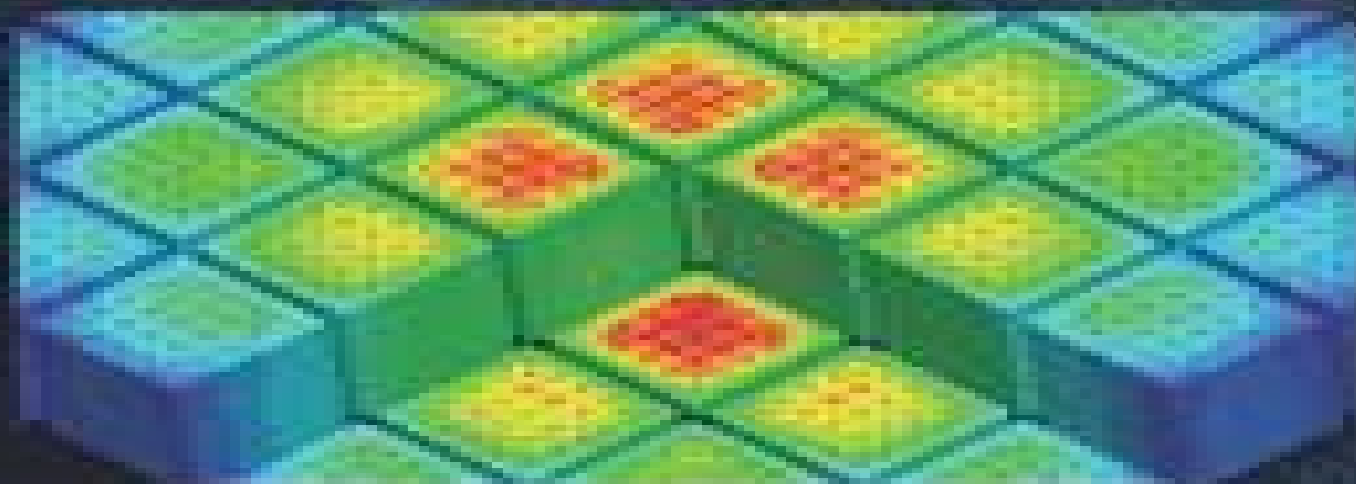
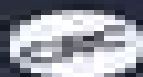


# Monte Carlo Methods for Particle Transport

SECOND EDITION



Alireza Haghighat



CRC Press  
Taylor & Francis Group

# Monte Carlo Methods For Particle Transport

**Paul Kollath Romano, Massachusetts  
Institute of Technology. Department  
of Nuclear Science and Engineering**



## **Monte Carlo Methods For Particle Transport:**

*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

**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** Leland Lavele Carter, E. D. Cashwell, 1975

**PARTICLE-TRANSPORT SIMULATION WITH THE MONTE CARLO METHOD** Leland L. Carter, Edmond Darrell Cashwell, 1975

**Particle-transport simulation with the Monte Carlo method** Leland L. Carter, 1975

**Monte Carlo Methods in Particle Transport** Rainer Salomaa, 1996

**Modified Monte Carlo Procedure for Particle Transport Problems** , 1978

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

**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.

**Modified Monte Carlo Procedure for Particle Transport Problems** W. Matthes, Commission of the European Communities, 1978

**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 Accelerating Monte Carlo Particle Transport with Adaptively Generated Importance Maps Michel Nowak, 2018. Monte Carlo methods are a reference asset for the study of radiation transport in shielding problems. Their use naturally implies the sampling of rare events and needs to be tackled with variance reduction methods. These methods require the definition of an importance function map. The aim of this study is to propose an adaptive strategy for the generation of such importance maps during the Monte Carlo simulation. The work was performed within TRIPOLI 4, a Monte Carlo transport code developed at the nuclear energy division of CEA in Saclay, France. The core of this PhD thesis is the implementation of a forward weighted adjoint score that relies on the trajectories sampled with Adaptive Multilevel Splitting, a robust variance reduction method. It was validated with the integration of a deterministic module in TRIPOLI 4. Three strategies were proposed for the reintegration of this score as an importance map, and accelerations were observed. Two of these strategies assess the convergence of the adjoint score during exploitation phases by evaluating the figure of merit yielded by the use of the current adjoint score. Finally, the smoothing of the importance map with machine learning algorithms concludes this work with a special focus on Kernel Density Estimators.

A Variationally-based Variance Reduction Method for Monte Carlo Particle Transport Problems Carla Lynn Barrett, 1999

**Application of a Hybrid Monte Carlo Method to Neutral Particle Transport in Slab Geometry** Andrew Blaine Collier, Potchefstroom University for Christian Higher Education, 1998

**Monte Carlo Techniques in Radiation Therapy** Joao Seco, Frank Verhaegen, 2013-03-25. 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 based dose calculation methods in radiotherapy could likely take place in the next decade.

**Monte Carlo Techniques in Radiation Therapy** explores the use of Monte Carlo methods for modeling various features of internal and external radiation sources including light ion beams. The book, the first of its kind, addresses applications of the Monte Carlo particle transport simulation technique in radiation therapy, mainly focusing on external beam radiotherapy and

brachytherapy It presents the mathematical and technical aspects of the methods in particle transport simulations The book also discusses the modeling of medical linacs and other irradiation devices issues specific to electron photon and proton ion beams and brachytherapy and the optimization of treatment planning radiation dosimetry and quality assurance Useful to clinical physicists graduate students and researchers this book provides a detailed state of the art guide to the fundamentals application and customization of Monte Carlo techniques in radiotherapy Through real world examples it illustrates the use of Monte Carlo modeling and simulations in dose calculation beam delivery kilovoltage and megavoltage imaging proton radiography device design and much more *Integral Methods in Science and Engineering, Volume 2* Christian

Constanda, Matteo Dalla Riva, Pier Domenico Lamberti, Paolo Musolino, 2017-09-08 This contributed volume contains a collection of articles on the most recent advances in integral methods The second of two volumes this work focuses on the applications of integral methods to specific problems in science and engineering Written by internationally recognized researchers the chapters in this book are based on talks given at the Fourteenth International Conference on Integral Methods in Science and Engineering held July 25-29 2016 in Padova Italy A broad range of topics is addressed such as Boundary elements Transport problems Option pricing Gas reservoirs Electromagnetic scattering This collection will be of interest to researchers in applied mathematics physics and mechanical and petroleum engineering as well as graduate students in these disciplines and to other professionals who use integration as an essential tool in their work **Parallel**

**Algorithms for Monte Carlo Particle Transport Simulation on Exascale Computing Architectures** Paul Kollath Romano, Massachusetts Institute of Technology. Department of Nuclear Science and Engineering, 2013 Monte Carlo particle transport methods are being considered as a viable option for high fidelity simulation of nuclear reactors While Monte Carlo methods offer several potential advantages over deterministic methods there are a number of algorithmic shortcomings that would prevent their immediate adoption for full core analyses In this thesis algorithms are proposed both to ameliorate the degradation in parallel efficiency typically observed for large numbers of processors and to offer a means of decomposing large tally data that will be needed for reactor analysis A nearest neighbor fission bank algorithm was proposed and subsequently implemented in the OpenMC Monte Carlo code A theoretical analysis of the communication pattern shows that the expected cost is  $O(\sqrt{N})$  whereas traditional fission bank algorithms are  $O(N)$  at best The algorithm was tested on two supercomputers the Intrepid Blue Gene P and the Titan Cray XK7 and demonstrated nearly linear parallel scaling up to 163 840 processor cores on a full core benchmark problem An algorithm for reducing network communication arising from tally reduction was analyzed and implemented in OpenMC The proposed algorithm groups only particle histories on a single processor into batches for tally purposes in doing so it prevents all network communication for tallies until the very end of the simulation The algorithm was tested again on a full core benchmark and shown to reduce network communication substantially A model was developed to predict the impact of load imbalances on the performance of domain decomposed

simulations The analysis demonstrated that load imbalances in domain decomposed simulations arise from two distinct phenomena non uniform particle densities and non uniform spatial leakage The dominant performance penalty for domain decomposition was shown to come from these physical effects rather than insufficient network bandwidth or high latency The model predictions were verified with measured data from simulations in OpenMC on a full core benchmark problem Finally a novel algorithm for decomposing large tally data was proposed analyzed and implemented tested in OpenMC The algorithm relies on disjoint sets of compute processes and tally servers The analysis showed that for a range of parameters relevant to LWR analysis the tally server algorithm should perform with minimal overhead Tests were performed on Intrepid and Titan and demonstrated that the algorithm did indeed perform well over a wide range of parameters *Cosmic Rays and Earth* J.W. Bieber,E. Eroshenko,P. Evenson,E.O. Flückiger,R. Kallenbach,2013-04-17 The year 1998 marked the 50th anniversary of the invention of the neutron monitor a key research tool in the field of space physics and solar terrestrial relations In honor of this occasion a workshop entitled Cosmic Rays and Earth was organized to review the detection of cosmic rays at the surface and in the lower atmosphere of Earth including the effect that this radiation has on the terrestrial environment A special focus was the role of neutron monitors in the investigation of this radiation on the science enabled by the unique dataset of the worldwide network of neutron monitors and on continuing opportunities to use these data to solve outstanding problems This book is the principal product of that workshop integrating the contributions of all participants Following a general summary of the workshop prepared by the editors the volume leads off with a keynote article by Professor John Simpson describing his invention of the neutron monitor in 1948 and the early scientific discoveries made with this instrument **A Monte Carlo Primer** Stephen A. Dupree,Stanley K. Fraley,2012-09-07 The mathematical technique of Monte Carlo as applied to the transport of sub atomic particles has been described in numerous reports and books since its formal development in the 1940s Most of these instructional efforts have been directed either at the mathematical basis of the technique or at its practical application as embodied in the several large formal computer codes available for performing Monte Carlo transport calculations This book attempts to fill what appears to be a gap in this Monte Carlo literature between the mathematics and the software Thus while the mathematical basis for Monte Carlo transport is covered in some detail emphasis is placed on the application of the technique to the solution of practical radiation transport problems This is done by using the PC as the basic teaching tool This book assumes the reader has a knowledge of integral calculus neutron transport theory and Fortran programming It also assumes the reader has available a PC with a Fortran compiler Any PC of reasonable size should be adequate to reproduce the examples or solve the exercises contained herein The authors believe it is important for the reader to execute these examples and exercises and by doing so to become accomplished at preparing appropriate software for solving radiation transport problems using Monte Carlo The step from the software described in this book to the use of production Monte Carlo codes should be straightforward

## Decoding **Monte Carlo Methods For Particle Transport**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Monte Carlo Methods For Particle Transport**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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