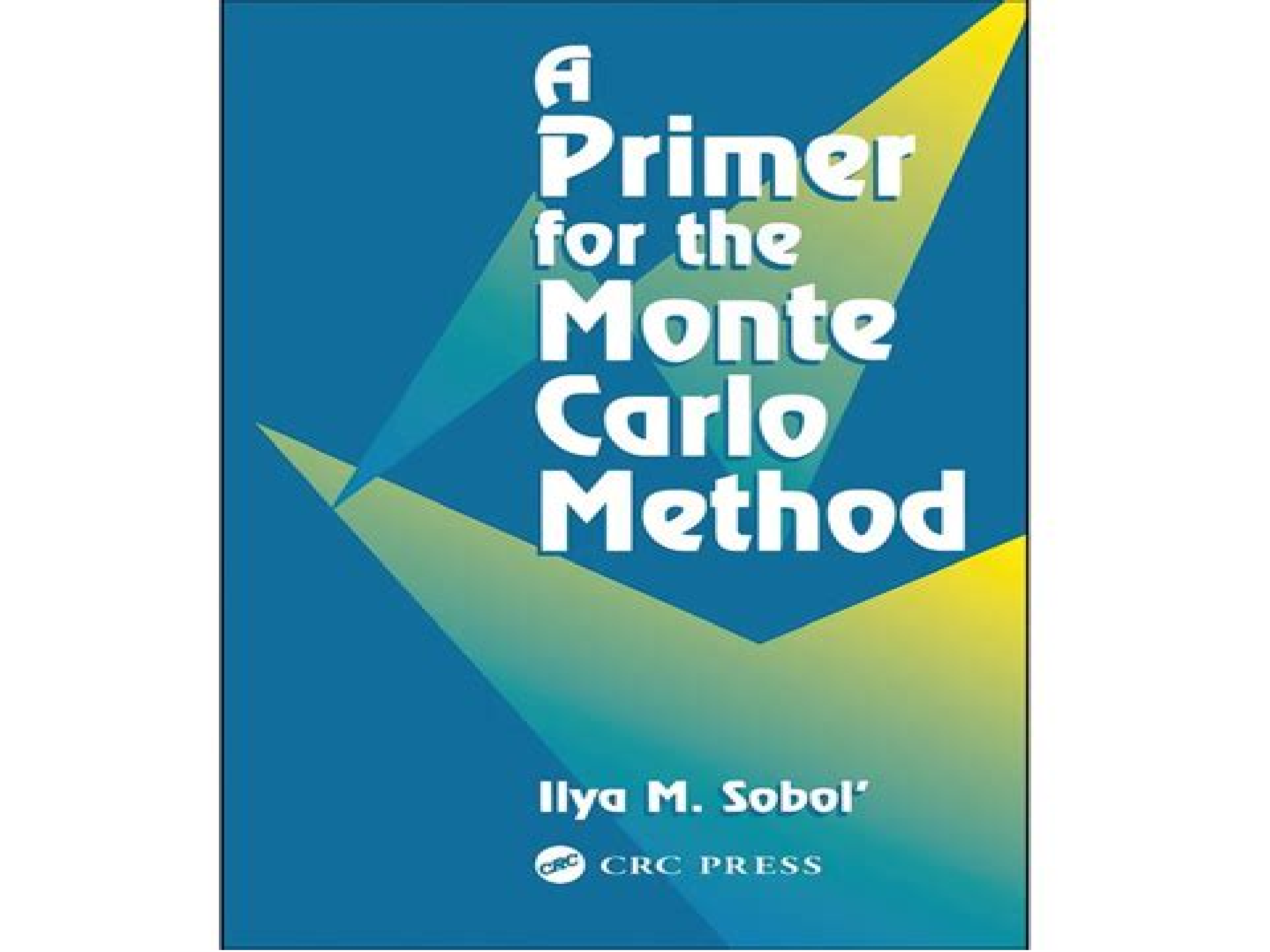




A Primer for the Monte Carlo Method

Ilya M. Sobol'



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A Monte Carlo Primer Stephen A. Dupree, Stanley K. Fraley, 2002 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

Theory of Semiconductor Quantum Devices Fausto Rossi, 2011-01-13 Primary goal of this book is to provide a cohesive description of the vast field of semiconductor quantum devices with special emphasis on basic quantum mechanical phenomena governing the electro optical response of new generation nanomaterials The book will cover within a common language different types of optoelectronic nanodevices

including quantum cascade laser sources and detectors few electron exciton quantum devices and semiconductor based quantum logic gates The distinguishing feature of the present volume is a unified microscopic treatment of quantum transport and coherent optics phenomena on ultrasmall space and time scales as well as of their semiclassical counterparts

Numerical Recipes with Source Code CD-ROM 3rd Edition William H. Press, Saul A. Teukolsky, 2007-09 The complete Numerical Recipes 3rd edition book CD bundle with a hundred new routines two new chapters and much more

Molecular Simulation of Fluids Richard J. Sadus, 2023-09-16 Molecular simulation allows researchers unique insight into the structures and interactions at play in fluids Since publication of the first edition of Molecular Simulation of Fluids novel developments in theory algorithms and computer hardware have generated enormous growth in simulation capabilities This 2nd edition has been fully updated and expanded to highlight this recent progress encompassing both Monte Carlo and molecular dynamic techniques and providing details of theory algorithms and both serial and parallel implementations Beginning with a clear introduction and review of theoretical foundations the book goes on to explore intermolecular potentials before discussing the calculation of molecular interactions in more detail Monte Carlo simulation and integrators for molecular dynamics are then discussed further followed by non equilibrium molecular dynamics and molecular simulation of ensembles and phase equilibria The use of object orientation is examined in detail with working examples coded in C Finally practical parallel simulation algorithms are discussed using both MPI and GPUs with the latter coded in CUDA Drawing on the extensive experience of its expert author Molecular Simulation of Fluids Theory Algorithms Object Orientation and Parallel Computing 2nd Edition is a practical accessible guide to this complex topic for all those currently using or interested in using molecular simulation to study fluids Fully updated and revised to reflect advances in the field including new chapters on intermolecular potentials and parallel algorithms Covers the application of both MPI and GPU programming to molecular simulation Covers a wide range of simulation topics using both Monte Carlo and molecular dynamics approaches Provides access to downloadable simulation code including GPU code using CUDA to encourage practice and support learning

Quantitative Methods in Tourism Rodolfo Baggio, Jane Klobas, 2011-03-15 Tourism studies often deal with complex mixes of external and local factors and the attitudes perceptions and actions of tourists themselves In seeking to understand individual elements of this mix or the results of interactions between them tourism authorities managers and researchers often collect quantitative data but until now the few existing guides to understanding quantitative data have been either very simple or very complicated This book provides a guide to dealing with real world data and goes beyond the methods usually covered in introductory textbooks The first part considers key issues associated with using well known methods to produce valid and reliable models of real world phenomena emphasizing issues in data selection approaches to factor and cluster analysis and mathematical modelling using regression methods including logistic regression and structural equation modelling The second part covers new approaches to modelling maximum likelihood estimation

simulation and agent based modelling Each chapter includes extensive references to additional reading and an appendix summarises the software introduced in the book The book provides many practical examples of applications to tourism research considers practical issues associated with application of quantitative techniques and discusses common pitfalls and how to identify and remedy them The result is a guide to quantitative methods in tourism that demystifies both simple and apparently complex techniques and makes them more accessible to tourism researchers

Cluster Models And Other Topics S A Chin, Kiyomi Ikeda, Yoshinori Akaishi, Hisashi Horiuchi, 1987-02-01 This volume consists of contributions from some of Japan's most eminent nuclear theorists The cluster model of the nucleus is discussed pedagogically and the current status of the field is surveyed A contribution on Monte Carlo Methods and Lattice Gauge Theories gives nuclear theorists a glimpse of related developments in QCD and Gauge Theories Few Body Systems are reviewed by Y Akaishi paying special attention to the ATMS Multiple Scattering Method

Randomization, Bootstrap and Monte Carlo Methods in Biology Bryan F.J. Manly, Jorge A. Navarro Alberto, 2020-07-21 Modern computer intensive statistical methods play a key role in solving many problems across a wide range of scientific disciplines Like its bestselling predecessors the fourth edition of Randomization Bootstrap and Monte Carlo Methods in Biology illustrates a large number of statistical methods with an emphasis on biological applications The focus is now on the use of randomization bootstrapping and Monte Carlo methods in constructing confidence intervals and doing tests of significance The text provides comprehensive coverage of computer intensive applications with data sets available online Features Presents an overview of computer intensive statistical methods and applications in biology Covers a wide range of methods including bootstrap Monte Carlo ANOVA regression and Bayesian methods Makes it easy for biologists researchers and students to understand the methods used Provides information about computer programs and packages to implement calculations particularly using R code Includes a large number of real examples from a range of biological disciplines Written in an accessible style with minimal coverage of theoretical details this book provides an excellent introduction to computer intensive statistical methods for biological researchers It can be used as a course text for graduate students as well as a reference for researchers from a range of disciplines The detailed worked examples of real applications will enable practitioners to apply the methods to their own biological data

Computational Chemistry Philippe G. Ciarlet, Jacques-Louis Lions, 1990 Aiming to provide the reader with a general overview of the mathematical and numerical techniques used for the simulation of matter at the microscopic scale this book lays the emphasis on the numerics but modelling aspects are also addressed The contributors come from different scientific communities physics theoretical chemistry mathematical analysis stochastic analysis numerical analysis and the text should be suitable for graduate students in mathematics sciences and engineering and technology

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