Stochastic Simulation And Monte Carlo Methods Mathematical Foundations Of Stochastic Simulation Stochastic Modelling And Applied Probability

Monte Carlo Methods for Applied ScientistsMonte Carlo Methods in Financial EngineeringDie Monte Carlo SimulationMonte Carlo MethodsMonte CarloVarianzreduzierende Verfahren der Monte-Carlo-Simulation und deren Anwendung bei der Bewertung von BandbreitenoptionenQuantum Monte Carlo Methods in Physics and ChemistrySequential Monte Carlo Methods in PracticeMonte Carlo MethodsMonte Carlo MethodsMonte Carlo Methods in Statistical PhysicsMonte Carlo MethodsEinführung in die Monte-Carlo-MethodeRandom Number Generation and Monte Carlo MethodsHandbook of Monte Carlo MethodsDie Monte-Carlo-MethodeA Guide to Monte Carlo Simulations in Statistical PhysicsExplorations in Monte Carlo MethodsMonte Carlo Methods in Statistical PhysicsMonte Carlo Simulation in Statistical Physics Ivan T. Dimov Paul Glasserman Gino Schneider J. Hammersley George Fishman Dirk Fach M.P. Nightingale Arnaud Doucet Malvin H. Kalos Neal Noah Madras Kurt Binder Adrian Barbu Walter Hengartner James E. Gentle Dirk P. Kroese Il ja M. Sobol David P. Landau Ronald W. Shonkwiler Kurt Binder Monte Carlo Methods for Applied Scientists Monte Carlo Methods in Financial Engineering Die Monte Carlo Simulation Monte Carlo Methods Monte Carlo Varianzreduzierende Verfahren der Monte-Carlo-Simulation und deren Anwendung bei der Bewertung von Bandbreitenoptionen Quantum Monte Carlo Methods in Physics and Chemistry Sequential Monte Carlo Methods in Practice Monte Carlo Methods Monte Carlo Methods Monte Carlo Methods in Statistical Physics Monte Carlo Methods Einführung in die Monte-Carlo-Methode Random Number Generation and Monte Carlo Methods Handbook of Monte Carlo Methods Die Monte-Carlo-Methode A Guide to Monte Carlo Simulations in Statistical Physics Explorations in Monte Carlo Methods Monte Carlo Methods in Statistical Physics Monte Carlo Simulation in Statistical Physics *Ivan T. Dimov Paul Glasserman Gino Schneider J. Hammersley George Fishman Dirk Fach M.P. Nightingale Arnaud Doucet Malvin H. Kalos Neal Noah Madras Kurt Binder Adrian Barbu Walter Hengartner James E. Gentle Dirk P.*

the monte carlo method is inherently parallel and the extensive and rapid development in parallel computers computational clusters and grids has resulted in renewed and increasing interest in this method at the same time there has been an expansion in the application areas and the method is now widely used in many important areas of science including nuclear and semiconductor physics statistical mechanics and heat and mass transfer this book attempts to bridge the gap between theory and practice concentrating on modern algorithmic implementation on parallel architecture machines although a suitable text for final year postgraduate mathematicians and computational scientists it is principally aimed at the applied scientists only a small amount of mathematical knowledge is assumed and theorem proving is kept to a minimum with the main focus being on parallel algorithms development often to applied industrial problems a selection of algorithms developed both for serial and parallel machines are provided

from the reviews paul glasserman has written an astonishingly good book that bridges financial engineering and the monte carlo method the book will appeal to graduate students researchers and most of all practicing financial engineers so often financial engineering texts are very theoretical this book is not glyn holton contingency analysis

studienarbeit aus dem jahr 2009 im fachbereich bwl unternehmensforschung operations research note 1 3 technische universität dresden sprache deutsch abstract viele probleme in der praxis sind so komplex dass sie nicht mathematisch exakt gel st werden k nnen in solchen fällen werden heuristische verfahren wie die simulation ben tigt bei der simulation werden komplexe technische oder wirtschaftliche abläufe mit hilfe eines modells nachgebildet analysiert und ausgewertet simulationen sind besonders dann nützlich wenn keine analytischen methoden zur probleml sung vorhanden sind der einsatz von solchen methoden einen zu hohen aufwand erfordert oder reale experimente aufgrund der kosten der zeit oder des risikos unm glich sind früher oft nur für die technik bedeutend geh rt die simulation heute zu den wichtigsten teilgebieten des operations research sie dient hier vor allem der analyse stochastischer problemstellungen im operations research bedeutet simulation die nachbildung der realität mit mathematischen numerischen bzw statistischen modellen es existiert eine vielzahl an anwendungsm glichkeiten und systematisierungsvorschlägen dabei wird u a zwischen deterministischer und stochastischer simulation unterschieden wie der

name schon sagt werden bei der deterministischen simulation probleme analysiert und gel st bei denen alle inputdaten bekannt sind beispiele hierfür sind deterministische lagerhaltungsabläufe oder tourenplanungsprobleme bei der stochastischen simulation in der literatur als monte carlo simulation bezeichnet werden dagegen probleme analysiert die von zufälligen einflüssen abhängen als beispiel k nnen wartungs und instandhaltungs warteschlangen lagerhaltungs und reihenfolgeprobleme genannt werden diese arbeit beschäftigt sich im folgenden genauer mit der monte carlo simulation es wird erklärt was darunter zu verstehen ist und welche instrumente für die anwendung ben tigt werden außerdem soll anhand eines beispiels der stellenwert verdeutlicht werden

this monograph surveys the present state of monte carlo methods we have dallied with certain topics that have interested us although personally we hope that our coverage of the subject is reasonably complete at least we believe that this book and the references in it come near to exhausting the present range of the subject on the other hand there are many loose ends for example we mention various ideas for variance reduction that have never been seriously appli d in practice this is inevitable and typical of a subject that has remained in its infancy for twenty years or more we are convinced qf ver theless that monte carlo methods will one day reach an impressive maturity the main theoretical content of this book is in chapter 5 some readers may like to begin with this chapter referring back to chapters 2 and 3 when necessary chapters 7 to 12 deal with applications of the monte carlo method in various fields and can be read in any order for the sake of completeness we cast a very brief glance in chapter 4 at the direct simulation used in industrial and operational research where the very simplest monte carlo techniques are usually sufficient we assume that the reader has what might roughly be described as a graduate knowledge of mathematics the actual mathematical techniques are with few exceptions quite elementary but we have freely used vectors matrices and similar mathematical language for the sake of conciseness

apart from a thorough exploration of all the important concepts this volume includes over 75 algorithms ready for putting into practice the book also contains numerous hands on implementations of selected algorithms to demonstrate applications in realistic settings readers are assumed to have a sound understanding of calculus introductory matrix analysis and intermediate statistics but otherwise the book is self contained suitable for graduates and undergraduates in mathematics and engineering in particular operations research statistics and computer science

inhaltsangabe einleitung seit anfang der achtziger jahre werden an den internationalen finanzmärkten immer wieder neue derivative finanzinstrumente entwickelt zu denen sich keine bewertung anhand einer analytischen l sung finden läßt eine methode der optionsbewertung neben der numerischen integration ist die schätzung des optionspreises durch die sogenannte monte carlo simulation die monte carlo methode ist ein verfahren der stochastischen simulation zur näherungsweisen bestimmung von mathematischen gr ßen die abhängig vom zufall verteilungsfunktionen sind die vorteile dieses verfahrens sind die flexibilität in bezug auf die verteilung mit der die wertpapierpreisentwicklung beschrieben wird und die einfachheit der implementierung der methode ebenfalls kann man die monte carlo simulation als kontrollverfahren für andere bewertungsverfahren benutzen die nachteile der monte carlo simulation sind zum einen daß das ergebnis der simulation durch die beeinflussung von zufallseffekten ebenfalls als zufallsvariable anzusehen ist so daß der fehler einer simulation ebenfalls vom zufall abhängt und nicht exakt vorherbestimmt werden kann zum anderen weist die monte carlo simulation ein langsames konvergenzverhalten hinsichtlich des exakten ergebnisses auf so daß häufig ein hoher simulationsumfang angewendet werden muß phelim p boyle war 1977 der erste wirtschaftswissenschaftler der die monte carlo simulationstechnik zur bewertung von optionen einführte hierbei simulierte er durch computerprogrammierung m gliche kursverläufe eines unbestimmten wertpapiers n mal und leitete anhand der simulierten schlußkurse zum fälligkeitstermin die payoffs einer europäischen call option her die summe der payoffs teilte er daraufhin durch die gesamtzahl der simulationsdurchläufe n und erhielt so einen unverzerrten schätzer für den wert der option boyle erkannte daß die präzision des so ermittelten schätzers vom umfang der simulation n abhängig ist und führte bereits zwei varianzreduzierende verfahren ein um den fehler der simulation zu verringern ohne den umfang der simulation zu erh hen seit 1977 hat sich die monte carlo simulation als instrument zur bewertung von derivativen wertpapieren etabliert das verfahren wurde benutzt um komparative preise für andere bewertungstechniken zu entwickeln häufiger kam die methode jedoch zum einsatz wenn kein analytischer bewertungsansatz gefunden werden konnte dies war und ist oft der fall

this book contains lectures on the basic theory and applications of quantum monte carlo methods with contributions written by authorities in the field although tutorial in nature it includes current developments both continuum systems and lattice models are covered the applications include atomic molecular and solid state physics statistical and low temperature physics and nuclear structure suitable for ph d students and beyond

monte carlo methods are revolutionising the on line analysis of data in fields as diverse as financial modelling target tracking and computer vision these methods appearing under the names of bootstrap filters condensation optimal monte carlo filters particle filters and survial of the fittest have made it possible to solve numerically many complex non standarard problems that were previously intractable this book presents the first comprehensive treatment of these techniques including convergence results and applications to tracking guidance automated target recognition aircraft navigation robot navigation econometrics financial modelling neural networks optimal control optimal filtering communications reinforcement learning signal enhancement model averaging and selection computer vision semiconductor design population biology dynamic bayesian networks and time series analysis this will be of great value to students researchers and practicioners who have some basic knowledge of probability arnaud doucet received the ph d degree from the university of paris xi orsay in 1997 from 1998 to 2000 he conducted research at the signal processing group of cambridge university uk he is currently an assistant professor at the department of electrical engineering of melbourne university australia his research interests include bayesian statistics dynamic models and monte carlo methods nando de freitas obtained a ph d degree in information engineering from cambridge university in 1999 he is presently a research associate with the artificial intelligence group of the university of california at berkeley his main research interests are in bayesian statistics and the application of on line and batch monte carlo methods to machine learning

this introduction to monte carlo methods seeks to identify and study the unifying elements that underlie their effective application initial chapters provide a short treatment of the probability and statistics needed as background enabling those without experience in monte carlo techniques to apply these ideas to their research the book focuses on two basic themes the first is the importance of random walks as they occur both in natural stochastic systems and in their relationship to integral and differential equations the second theme is that of variance reduction in general and importance sampling in particular as a technique for efficient use of the methods random walks are introduced with an elementary example in which the modeling of radiation transport arises directly from a schematic probabilistic description of the interaction of radiation with matter building on this example the relationship between random walks and integral equations is outlined the applicability of these ideas to other problems is shown by a clear and elementary introduction to the solution of the schrodinger equation by random walks the text includes sample problems that readers can

solve by themselves to illustrate the content of each chapter this is the second completely revised and extended edition of the successful monograph which brings the treatment up to date and incorporates the many advances in monte carlo techniques and their applications while retaining the original elementary but general approach

this volume contains the proceedings of the workshop on monte carlo methods held at the fields institute for research in mathematical sciences toronto 1998 the workshop brought together researchers in physics statistics and probability the papers in this volume of the invited speakers and contributors to the poster session represent the interdisciplinary emphasis of the conference monte carlo methods have been used intensively in many branches of scientific inquiry markov chain methods have been at the forefront of much of this work serving as the basis of many numerical studies in statistical physics and related areas since the metropolis algorithm was introduced in 1953 statisticians and theoretical computer scientists have used these methods in recent years working on different fundamental research questions yet using similar monte carlo methodology this volume focuses on monte carlo methods that appear to have wide applicability and emphasizes new methods practical applications and theoretical analysis it will be of interest to researchers and graduate students who study and or use monte carlo methods in areas of probability statistics theoretical physics or computer science

in the seven years since this volume first appeared there has been an enormous expansion of the range of problems to which monte carlo computer simulation methods have been applied this fact has already led to the addition of a companion volume applications of the monte carlo method in statistical physics topics in current physics vol 36 edited in 1984 to this book but the field continues to develop further rapid progress is being made with respect to the implementation of monte carlo algorithms the construction of special purpose computers dedicated to exe cute monte carlo programs and new methods to analyze the data generated by these programs brief descriptions of these and other developments together with numerous addi tional references are included in a new chapter recent trends in monte carlo simulations which has been written for this second edition typographical correc tions have been made and fuller references given where appropriate but otherwise the layout and contents of the other chapters are left unchanged thus this book together with its companion volume mentioned above gives a fairly complete and up to date review of the field it is hoped that the reduced price of this paperback edition will make it accessible to a wide range of

scientists and students in the fields to which it is relevant theoretical physics and physical chemistry con densed matter physics and materials science computational physics and applied mathematics etc

this book seeks to bridge the gap between statistics and computer science it provides an overview of monte carlo methods including sequential monte carlo markov chain monte carlo metropolis hastings gibbs sampler cluster sampling data driven mcmc stochastic gradient descent langevin monte carlo hamiltonian monte carlo and energy landscape mapping due to its comprehensive nature the book is suitable for developing and teaching graduate courses on monte carlo methods to facilitate learning each chapter includes several representative application examples from various fields the book pursues two main goals 1 it introduces researchers to applying monte carlo methods to broader problems in areas such as computer vision computer graphics machine learning robotics artificial intelligence etc and 2 it makes it easier for scientists and engineers working in these areas to employ monte carlo methods to enhance their research

the role of monte carlo methods and simulation in all of the sciences has in creased in importance during the past several years these methods are at the heart of the rapidly developing subdisciplines of computational physics compu tational chemistry and the other computational sciences the growing power of computers and the evolving simulation methodology have led to the recog nition of computation as a third approach for advancing the natural sciences together with theory and traditional experimentation monte carlo is also a fundamental tool of computational statistics at the kernel of a monte carlo or simulation method is random number generation generation of random numbers is also at the heart of many standard statis tical methods the random sampling required in most analyses is usually done by the computer the computations required in bayesian analysis have become viable because of monte carlo methods this has led to much wider applications of bayesian statistics which in turn has led to development of new monte carlo methods and to refinement of existing procedures for random number generation

a comprehensive overview of monte carlo simulation that explores the latest topics techniques and real world applications more and more of today s numerical problems found in engineering and finance are solved through monte carlo methods the heightened popularity of these methods and their continuing development makes it important for

researchers to have a comprehensive understanding of the monte carlo approach handbook of monte carlo methods provides the theory algorithms and applications that helps provide a thorough understanding of the emerging dynamics of this rapidly growing field the authors begin with a discussion of fundamentals such as how to generate random numbers on a computer subsequent chapters discuss key monte carlo topics and methods including random variable and stochastic process generation markov chain monte carlo featuring key algorithms such as the metropolis hastings method the gibbs sampler and hit and run discrete event simulation techniques for the statistical analysis of simulation data including the delta method steady state estimation and kernel density estimation variance reduction including importance sampling latin hypercube sampling and conditional monte carlo estimation of derivatives and sensitivity analysis advanced topics including cross entropy rare events kernel density estimation quasi monte carlo particle systems and randomized optimization the presented theoretical concepts are illustrated with worked examples that use matlab a related site houses the matlab code allowing readers to work hands on with the material and also features the author s own lecture notes on monte carlo methods detailed appendices provide background material on probability theory stochastic processes and mathematical statistics as well as the key optimization concepts and techniques that are relevant to monte carlo simulation handbook of monte carlo methods is an excellent reference for applied statisticians and practitioners working in the fields of engineering and finance who use or would like to learn how to use monte carlo in their research it is also a suitable supplement for courses on monte carlo methods and computational statistics at the upper undergraduate and graduate levels

this book describes all aspects of monte carlo simulation of complex physical systems encountered in condensed matter physics and statistical mechanics as well as in related fields such as polymer science and lattice gauge theory the authors give a succinct overview of simple sampling methods and develop the importance sampling method in addition they introduce quantum monte carlo methods aspects of simulations of growth phenomena and other systems far from equilibrium and the monte carlo renormalization group approach to critical phenomena the book includes many applications examples and current references and exercises to help the reader

monte carlo methods are among the most used and useful computational tools available today providing efficient and practical algorithims to solve a wide range of scientific and

engineering problems explorations in monte carlo methods provides a hands on approach to learning this subject each new idea is carefully motivated by a realistic problem thus leading from questions to theory via examples and numerical simulations programming exercises are integrated throughout the text as the primary vehicle for learning the material each chapter ends with a large collection of problems illustrating and directing the material this book is suitable as a textbook for students of engineering and the sciences as well as mathematics the problem oriented approach makes it ideal for an applied course in basic probability and for a more specialized course in monte carlo methods topics include probability distributions counting combinatorial objects simulated annealing genetic algorithms option pricing gamblers ruin statistical mechanics sampling and random number generation

this book provides an introduction to monte carlo simulations in classical statistical physics and is aimed both at students beginning work in the field and at more experienced researchers who wish to learn more about monte carlo methods the material covered includes methods for both equilibrium and out of equilibrium systems and common algorithms like the metropolis and heat bath algorithms are discussed in detail as well as more sophisticated ones such as continuous time monte carlo cluster algorithms multigrid methods entropic sampling and simulated tempering data analysis techniques are also explained starting with straightforward measurement and error estimation techniques and progressing to topics such as the single and multiple histogram methods and finite size scaling the last few chapters of the book are devoted to implementation issues including discussions of such topics as lattice representations efficient implementation of data structures multispin coding parallelization of monte carlo algorithms and random number generation at the end of the book the authors give a number of example programs demonstrating the applications of these techniques to a variety of well known models

monte carlo simulation in statistical physics deals with the computer simulation of many body systems in condensed matter physics and related fields of physics chemistry and beyond to traffic flows stock market fluctuations etc using random numbers generated by a computer probability distributions are calculated allowing the estimation of the thermodynamic properties of various systems this book describes the theoretical background to several variants of these monte carlo methodsand gives a systematic presentation from which newcomers can learn to perform such simulations and to analyze their results the fifth edition covers classical as well as quantum monte carlo methods furthermore a new chapter on the

sampling of free energy landscapes has been added to help students in their work a special web server has been installed to host programs and discussion groups cp tphys uni heidelberg de prof binder was the winner of the berni j alder cecam award for computational physics 2001 as well as the boltzmann medal in 2007

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