

Statistics and Computing

James E. Gentle

**Random Number
Generation and
Monte Carlo Methods**

Second Edition



Springer

Random Number Generation And Monte Carlo Methods Statistics And Computing

John F. Monahan



Random Number Generation And Monte Carlo Methods Statistics And Computing:

Random Number Generation and Monte Carlo Methods James E. Gentle, 2004-09-14 Monte Carlo simulation has become one of the most important tools in all fields of science. Simulation methodology relies on a good source of numbers that appear to be random. These pseudorandom numbers must pass statistical tests just as random samples would. Methods for producing pseudorandom numbers and transforming those numbers to simulate samples from various distributions are among the most important topics in statistical computing. This book surveys techniques of random number generation and the use of random numbers in Monte Carlo simulation. The book covers basic principles as well as newer methods such as parallel random number generation, nonlinear congruential generators, quasi-Monte Carlo methods, and Markov chain Monte Carlo. The best methods for generating random variates from the standard distributions are presented, but also general techniques useful in more complicated models and in novel settings are described. The emphasis throughout the book is on practical methods that work well in current computing environments. The book includes exercises and can be used as a text or supplementary text for various courses in modern statistics. It could serve as the primary text for a specialized course in statistical computing or as a supplementary text for a course in computational statistics and other areas of modern statistics that rely on simulation. The book, which covers recent developments in the field, could also serve as a useful reference for practitioners. Although some familiarity with probability and statistics is assumed, the book is accessible to a broad audience. The second edition is approximately 50% longer than the first edition. It includes advances in methods for parallel random number generation, universal methods for generation of nonuniform variates, perfect sampling, and software for random number generation.

Matrix Algebra James E. Gentle, 2007-08-06 Matrix algebra is one of the most important areas of mathematics for data analysis and for statistical theory. The first part of this book presents the relevant aspects of the theory of matrix algebra for applications in statistics. This part begins with the fundamental concepts of vectors and vector spaces, next covers the basic algebraic properties of matrices, then describes the analytic properties of vectors and matrices in the multivariate calculus, and finally discusses operations on matrices in solutions of linear systems and in eigenanalysis. This part is essentially self-contained. The second part of the book begins with a consideration of various types of matrices encountered in statistics, such as projection matrices and positive definite matrices, and describes the special properties of those matrices. The second part also describes some of the many applications of matrix theory in statistics, including linear models, multivariate analysis, and stochastic processes. The brief coverage in this part illustrates the matrix theory developed in the first part of the book. The first two parts of the book can be used as the text for a course in matrix algebra for statistics students or as a supplementary text for various courses in linear models or multivariate statistics. The third part of this book covers numerical linear algebra. It begins with a discussion of the basics of numerical computations and then describes accurate and efficient algorithms for factoring matrices, solving linear systems of equations, and extracting eigenvalues and

eigenvectors Although the book is not tied to any particular software system it describes and gives examples of the use of modern computer software for numerical linear algebra This part is essentially self contained although it assumes some ability to program in Fortran or C and or the ability to use R S Plus or Matlab This part of the book can be used as the text for a course in statistical computing or as a supplementary text for various courses that emphasize computations The book includes a large number of exercises with some solutions provided in an appendix

Monte Carlo Methods Malvin H. Kalos, Paula A. Whitlock, 2009-06-10 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 Schrödinger 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

Random Number Generation and Monte Carlo Methods Springer, 2014-01-15

Random Number Generation and Quasi-Monte Carlo Methods Harald Niederreiter, 1992-01-01 This volume contains recent work in uniform pseudorandom number generation and quasi Monte Carlo methods and stresses the interplay between them

PROBABILITY AND STATISTICS - Volume II Reinhard Viertl, 2009-06-11 Probability and Statistics theme is a component of Encyclopedia of Mathematical Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme with contributions from distinguished experts in the field discusses Probability and Statistics Probability is a standard mathematical concept to describe stochastic uncertainty Probability and Statistics can be considered as the two sides of a coin They consist of methods for modeling uncertainty and measuring real phenomena Today many important political health and economic decisions are based on statistics This theme is structured in five main topics Probability and Statistics Probability Theory Stochastic Processes and Random Fields Probabilistic Models and Methods Foundations of Statistics which are then expanded into multiple subtopics each as a chapter These three volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy

analysts managers and decision makers and NGOs

Handbooks in Operations Research and Management Science:

Simulation Shane G. Henderson, Barry L. Nelson, 2006-09-02 This Handbook is a collection of chapters on key issues in the design and analysis of computer simulation experiments on models of stochastic systems. The chapters are tightly focused and written by experts in each area. For the purpose of this volume, simulation refers to the analysis of stochastic processes through the generation of sample paths, realization of the processes. Attention focuses on design and analysis issues and the goal of this volume is to survey the concepts, principles, tools, and techniques that underlie the theory and practice of stochastic simulation design and analysis. Emphasis is placed on the ideas and methods that are likely to remain an intrinsic part of the foundation of the field for the foreseeable future. The chapters provide up-to-date references for both the simulation researcher and the advanced simulation user, but they do not constitute an introductory level. How to guide Computer scientists, financial analysts, industrial engineers, management scientists, operations researchers, and many other professionals use stochastic simulation to design, understand, and improve communications, financial, manufacturing, logistics, and service systems. A theme that runs throughout these diverse applications is the need to evaluate system performance in the face of uncertainty, including uncertainty in user load, interest rates, demand for product availability, cost of transportation, and equipment failures. Tightly focused chapters written by experts. Surveys concepts, principles, tools, and techniques that underlie the theory and practice of stochastic simulation design and analysis. Provides an up-to-date reference for both simulation researchers and advanced simulation users. Numerical Methods of Statistics John F.

Monahan, 2001-02-05 This 2001 book provides a basic background in numerical analysis and its applications in statistics.

Encyclopedia of Measurement and Statistics Neil J. Salkind, 2006-10-13 The study of measurement and statistics can be less than inviting. However, in fields as varied as education, politics, and health care assessment, and the use of measurement and statistics have become integral parts of almost every activity undertaken. These activities require the organization of ideas, the generation of hypotheses, the collection of data, and the interpretation, illustration, and analysis of data. No matter where educated people look, this critical analysis is more important than ever in an age where information and lots of it is readily available. The ideas and tools contained in the *Encyclopedia of Measurement and Statistics* are approachable and can be invaluable for understanding a very technical world and the increasing flow of information. Although there are references that cover statistics and assessment in depth, none provides as comprehensive a resource in as focused and accessible a manner as the three volumes of this *Encyclopedia*. Through approximately 500 contributions, experts provide an overview and an explanation of the major topics in these two areas. **Key Features** Covers every major facet of these two different but highly integrated disciplines, from mean, mode, and median to reliability, validity, significance, correlation, and much more, all without overwhelming the informed reader. Offers cross-disciplinary coverage with contributions from and applications to the fields of Psychology, Education, Sociology, Human Development, Political Science, Business, and

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Monte Carlo Methods in Chemical Physics David M. Ferguson, J. Ilja Siepmann, Donald G. Truhlar, 1999 In Monte Carlo Methods in Chemical Physics An Introduction to the Monte Carlo Method for Particle Simulations J Ilja Siepmann Random Number Generators for Parallel Applications Ashok Srinivasan David M Ceperley and Michael Mascagni Between Classical and Quantum Monte Carlo Methods Variational QMC Dario Bressanini and Peter J Reynolds Monte Carlo Eigenvalue Methods in Quantum Mechanics and Statistical Mechanics M P Nightingale and C J Umrigar Adaptive Path Integral Monte Carlo Methods for Accurate Computation of Molecular Thermodynamic Properties Robert Q Topper Monte Carlo Sampling for Classical Trajectory Simulations Gilles H Peslherbe Haobin Wang and William L Hase Monte Carlo Approaches to the Protein Folding Problem Jeffrey Skolnick and Andrzej Kolinski Entropy Sampling Monte Carlo for Polypeptides and Proteins Harold A Scheraga and Minh Hong Hao Macrostate Dissection of Thermodynamic Monte Carlo Integrals Bruce W Church Alex Ulitsky and David Shalloway Simulated Annealing Optimal Histogram Methods David M Ferguson and David G Garrett Monte Carlo Methods for Polymeric Systems Juan J de Pablo and Fernando A Escobedo Thermodynamic Scaling Methods in Monte Carlo and Their Application to Phase Equilibria John Valleau Semigrand Canonical Monte Carlo Simulation Integration Along Coexistence Lines David A Kofke Monte Carlo Methods for Simulating Phase Equilibria of Complex Fluids J Ilja Siepmann Reactive Canonical Monte Carlo J Karl Johnson New Monte Carlo Algorithms for Classical Spin Systems G T Barkema and M E J Newman *Proceedings of the Statistical Computing Section American Statistical Association. Statistical Computing Section, 1988* [Proceedings of the Western Joint Computer Conference](#), 1961 *Computational Statistics*, 2010-04-29 Computational inference is based on an approach to statistical methods that uses modern computational power to simulate distributional properties of estimators and test statistics This book describes computationally intensive statistical methods in a unified presentation emphasizing techniques such as the PDF decomposition that arise in a wide range of methods

[Proceedings of the 1998 Winter Simulation Conference](#) D. J. Medeiros, 1998 [Simulation and the Monte Carlo Method](#) Reuven Y. Rubinstein, 1981-05-14 This book provides the first simultaneous coverage of the statistical aspects of simulation

and Monte Carlo methods their commonalities and their differences for the solution of a wide spectrum of engineering and scientific problems It contains standard material usually considered in Monte Carlo simulation as well as new material such as variance reduction techniques regenerative simulation and Monte Carlo optimization *Stochastic Analysis of Water Quality* Ronald F. Malone,1979 *Applied Parallel Computing* ,2004 **Joint Computer Conference** ,1961 **Diffusion and Defect Data** ,1993 *Papers and Discussions Presented* ,1961

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