

# **Fast Random Number Generator**

**David Johnston**

*Random Numbers and Computers* Ronald T. Kneusel, 2018-04-05 This book covers pseudorandom number generation algorithms, evaluation techniques, and offers practical advice and code examples. *Random Numbers and Computers* is an essential introduction or refresher on pseudorandom numbers in computer science. The first comprehensive book on the topic, readers are provided with a practical introduction to the techniques of pseudorandom number generation, including how the algorithms work and how to test the output to decide if it is suitable for a particular purpose. Practical applications are demonstrated with hands-on presentation and descriptions that readers can apply directly to their own work. Examples are in C and Python and given with an emphasis on understanding the algorithms to the point of practical application. The examples are meant to be implemented, experimented with and improved/adapted by the reader.

**Random Number Generators--Principles and Practices** David Johnston, 2018 *Random Number Generators, Principles and Practices* has been written for programmers, hardware engineers, and sophisticated hobbyists interested in understanding random numbers generators and gaining the tools necessary to work with random number generators with confidence and knowledge. Using an approach that employs clear diagrams and running code examples rather than excessive mathematics, random number related topics such as entropy estimation, entropy extraction, entropy

sources, PRNGs, randomness testing, distribution generation, and many others are exposed and demystified. If you have ever Wondered how to test if data is really random Needed to measure the randomness of data in real time as it is generated Wondered how to get randomness into your programs Wondered whether or not a random number generator is trustworthy Wanted to be able to choose between random number generator solutions Needed to turn uniform random data into a different distribution Needed to ensure the random numbers from your computer will work for your cryptographic application Wanted to combine more than one random number generator to increase reliability or security Wanted to get random numbers in a floating point format Needed to verify that a random number generator meets the requirements of a published standard like SP800-90 or AIS 31 Needed to choose between an LCG, PCG or XorShift algorithm Then this might be the book for you.

How Software Works V. Anton Spraul, 2015-08-01 We use software every day to perform all kinds of magical, powerful tasks. It's the force behind stunning CGI graphics, safe online shopping, and speedy Google searches. Software drives the modern world, but its inner workings remain a mystery to many. How Software Works explains how computers perform common-yet-amazing tasks that we take for granted every day. Inside you'll learn: –How data is encrypted –How passwords are used and protected –How computer graphics are created –How video is compressed for streaming and storage –How data is searched (and found) in huge databases –How programs can work together on the same problem

without conflict –How data travels over the Internet How Software Works breaks down these processes with patient explanations and intuitive diagrams so that anyone can understand–no technical background is required, and you won't be reading through any code. In plain English, you'll examine the intricate logic behind the technologies you constantly use but never understood. If you've ever wondered what really goes on behind your computer screen, How Software Works will give you fascinating look into the software all around you.

**The Art Of Computer Programming, Volume 2:  
Seminumerical Algorithms, 3/E** Knuth,1998-09

**Open Problems in Mathematics and Computational Science** Çetin Kaya Koç,2015-03-25 This book presents interesting, important unsolved problems in the mathematical and computational sciences. The contributing authors are leading researchers in their fields and they explain outstanding challenges in their domains, first by offering basic definitions, explaining the context, and summarizing related algorithms, theorems, and proofs, and then by suggesting creative solutions. The authors feel a strong motivation to excite deep research and discussion in the mathematical and computational sciences community, and the book will be of value to postgraduate students and researchers in the areas of theoretical computer science, discrete mathematics, engineering, and cryptography.

**Monte Carlo and Quasi-Monte Carlo Methods 2006**  
Alexander Keller,Stefan Heinrich,Harald  
Niederreiter,2007-12-30 This book presents the

refereed proceedings of the Seventh International Conference on Monte Carlo and Quasi-Monte Carlo Methods in Scientific Computing, held in Ulm, Germany, in August 2006. The proceedings include carefully selected papers on many aspects of Monte Carlo and quasi-Monte Carlo methods and their applications. They also provide information on current research in these very active areas.

*PHP Cookbook* David Sklar, Adam Trachtenberg, 2003  
A collection of problems, solutions, and practical examples for PHP programmers. The book contains a unique and extensive collection of best practices for everyday PHP programming dilemmas. For every problem addressed in the book, there's a worked-out solution or recipe -- a short, focused piece of code you can insert directly into your application. However, this book offers more than cut-and-paste code. You also get explanations of how and why the code works, so you can learn to adapt the problem-solving techniques to similar situations. The recipes in the PHP Cookbook range from simple tasks, such as sending a database query and fetching URLs, to entire programs that demonstrate complex tasks, such as printing HTML tables and generating bar charts. This book contains an impressive collection of useful code for PHP programmers, from novices to advanced practitioners. Instead of poking around mailing lists, online documentation, and other sources, you can rely on the PHP Cookbook to provide quick solutions to common problems, so you can spend your time on those out-of-the-ordinary problems specific to your application.

**2020 IEEE International Conference on Problems**

**of Infocommunications Science and Technology (PIC S&T)** IEEE Staff,2020-10-06 Information and Communication is playing an increasing role in society and within our lives Recognizing this, PIC S&T aims to provide a forum for researchers from both academia and industry to share their latest research contributions, future vision in the field and potential impact across industries and exchange knowledge with the common goal of shaping the future of Infocommunication The conference will provide its attendees an uncommon opportunity to expand their network beyond their immediate professional environment It is a unique chance to work with other accomplished individuals from diverse areas towards the common goal of shaping the future of the communication

Handbook of Computational Statistics James E. Gentle,Wolfgang Karl Härdle,Yuichi Mori,2012-07-06 The Handbook of Computational Statistics - Concepts and Methods (second edition) is a revision of the first edition published in 2004, and contains additional comments and updated information on the existing chapters, as well as three new chapters addressing recent work in the field of computational statistics. This new edition is divided into 4 parts in the same way as the first edition. It begins with How Computational Statistics became the backbone of modern data science (Ch.1): an overview of the field of Computational Statistics, how it emerged as a separate discipline, and how its own development mirrored that of hardware and software, including a discussion of current active research. The second part (Chs. 2 - 15) presents

several topics in the supporting field of statistical computing. Emphasis is placed on the need for fast and accurate numerical algorithms, and some of the basic methodologies for transformation, database handling, high-dimensional data and graphics treatment are discussed. The third part (Chs. 16 - 33) focuses on statistical methodology. Special attention is given to smoothing, iterative procedures, simulation and visualization of multivariate data. Lastly, a set of selected applications (Chs. 34 - 38) like Bioinformatics, Medical Imaging, Finance, Econometrics and Network Intrusion Detection highlight the usefulness of computational statistics in real-world applications.

**A Million Random Digits with 100,000 Normal Deviates** ,2001 Not long after research began at RAND in 1946, the need arose for random numbers that could be used to solve problems of various kinds of experimental probability procedures. These applications, called Monte Carlo methods, required a large supply of random digits and normal deviates of high quality, and the tables presented here were produced to meet those requirements. This book was a product of RAND's pioneering work in computing, as well a testament to the patience and persistence of researchers in the early days of RAND. The tables of random numbers in this book have become a standard reference in engineering and econometrics textbooks and have been widely used in gaming and simulations that employ Monte Carlo trials. Still the largest published source of random digits and normal deviates, the work is routinely used by

statisticians, physicists, polltakers, market analysts, lottery administrators, and quality control engineers. A 2001 article in the New York Times on the value of randomness featured the original edition of the book, published in 1955 by the Free Press. The rights have since reverted to RAND, and in this digital age, we thought it appropriate to reissue a new edition of the book in its original format, with a new foreword by Michael D. Rich, RAND's Executive Vice President

**Random Number Generation on the BRL High Speed Computing Machines** Mario Leon Juncosa, 1953

**Cryptographic Hardware and Embedded Systems – CHES 2008** Elisabeth Oswald, Pankaj

Rohatgi, 2008-08-06 This book constitutes the refereed proceedings of the 10th International Workshop on Cryptographic Hardware and Embedded Systems, CHES 2008, held in Washington, D.C., USA, during August 10-13, 2008. The book contains 2 invited talks and 27 revised full papers which were carefully reviewed and selected from 107 submissions. The papers are organized in topical sections on side channel analysis, implementations, fault analysis, random number generation, and cryptography and cryptanalysis.

**Random Number Generation and Quasi-Monte Carlo Methods** Harald Niederreiter, 1992-01-01 Tremendous progress has taken place in the related areas of uniform pseudorandom number generation and quasi-Monte Carlo methods in the last five years. This volume contains recent important work in these two areas, and stresses the interplay between them. Some developments contained here have never before appeared in book form. Includes the discussion of



the integrated treatment of pseudorandom numbers and quasi-Monte Carlo methods; the systematic development of the theory of lattice rules and the theory of nets and  $(t,s)$ -sequences; the construction of new and better low-discrepancy point sets and sequences; Nonlinear congruential methods; the initiation of a systematic study of methods for pseudorandom vector generation; and shift-register pseudorandom numbers. Based on a series of 10 lectures presented by the author at a CBMS-NSF Regional Conference at the University of Alaska at Fairbanks in 1990 to a selected group of researchers, this volume includes background material to make the information more accessible to nonspecialists.

**Non-Uniform Random Variate Generation** Luc Devroye, 2013-11-22 This text is about one small field on the crossroads of statistics, operations research and computer science. Statisticians need random number generators to test and compare estimators before using them in real life. In operations research, random numbers are a key component in large scale simulations. Computer scientists need randomness in program testing, game playing and comparisons of algorithms. The applications are wide and varied. Yet all depend upon the same computer generated random numbers. Usually, the randomness demanded by an application has some built-in structure: typically, one needs more than just a sequence of Independent random bits or Independent uniform  $[0,1]$  random variables. Some users need random variables with unusual densities, or random combinatorial objects with specific properties, or random

geometric objects, or random processes with well defined dependence structures. This is precisely the subject area of the book, the study of non-uniform random variables. The plot evolves around the expected complexity of random variable generation algorithms. We set up an idealized computational model (without overdoing it), we introduce the notion of uniformly bounded expected complexity, and we study upper and lower bounds for computational complexity. In short, a touch of computer science is added to the field. To keep everything abstract, no timings or computer programs are included. This was a labor of love. George Marsaglia created CS690, a course on random number generation at the School of Computer Science of McGill University.

### **Dynamics of Complex Autonomous Boolean Networks**

David P. Rosin, 2014-12-31 This thesis focuses on the dynamics of autonomous Boolean networks, on the basis of Boolean logic functions in continuous time without external clocking. These networks are realized with integrated circuits on an electronic chip as a field programmable gate array (FPGA) with roughly 100,000 logic gates, offering an extremely flexible model system. It allows fast and cheap design cycles and large networks with arbitrary topologies and coupling delays. The author presents pioneering results on theoretical modeling, experimental realization, and selected applications. In this regard, three classes of novel dynamic behavior are investigated: (i) Chaotic Boolean networks are proposed as high-speed physical random number generators with high bit rates. (ii) Networks of periodic Boolean

oscillators are home to long-living transient chimera states, i.e., novel patterns of coexisting domains of spatially coherent (synchronized) and incoherent (desynchronized) dynamics. (iii) Excitable networks exhibit cluster synchronization and can be used as fast artificial Boolean neurons whose spiking patterns can be controlled. This work presents the first experimental platform for large complex networks, which will facilitate exciting future developments.

**Statistical Computing** William J. Kennedy, James E. Gentle, 2021-06-23 In this book the authors have assembled the best techniques from a great variety of sources, establishing a benchmark for the field of statistical computing. ---Mathematics of Computation . The text is highly readable and well illustrated with examples. The reader who intends to take a hand in designing his own regression and multivariate packages will find a storehouse of information and a valuable resource in the field of statistical computing.

**Random Number Generation and Monte Carlo Methods** James E. Gentle, 2013-03-14 Monte Carlo simulation has become one of the most important tools in all fields of science. This book surveys the basic techniques and principles of the subject, as well as general techniques useful in more complicated models and in novel settings. The emphasis throughout is on practical methods that work well in current computing environments.

**Semiconductor Lasers** Junji Ohtsubo, 2017-05-03 This book describes the fascinating recent advances made concerning the chaos, stability and instability of semiconductor lasers, and discusses

their applications and future prospects in detail. It emphasizes the dynamics in semiconductor lasers by optical and electronic feedback, optical injection, and injection current modulation. Applications of semiconductor laser chaos, control and noise, and semiconductor lasers are also demonstrated. Semiconductor lasers with new structures, such as vertical-cavity surface-emitting lasers and broad-area semiconductor lasers, are intriguing and promising devices. Current topics include fast physical number generation using chaotic semiconductor lasers for secure communication, development of chaos, quantum-dot semiconductor lasers and quantum-cascade semiconductor lasers, and vertical-cavity surface-emitting lasers. This fourth edition has been significantly expanded to reflect the latest developments. The fundamental theory of laser chaos and the chaotic dynamics in semiconductor lasers are discussed, but also for example the method of self-mixing interferometry in quantum-cascade lasers, which is indispensable in practical applications. Further, this edition covers chaos synchronization between two lasers and the application to secure optical communications. Another new topic is the consistency and synchronization property of many coupled semiconductor lasers in connection with the analogy of the dynamics between synaptic neurons and chaotic semiconductor lasers, which are compatible nonlinear dynamic elements. In particular, zero-lag synchronization between distant neurons plays a crucial role for information processing in the brain. Lastly, the

book presents an application of the consistency and synchronization property in chaotic semiconductor lasers, namely a type of neuro-inspired information processing referred to as reservoir computing.

### **Joe Celko's SQL for Smarties Joe**

Celko, 2010-11-22 Joe Celko's SQL for Smarties: Advanced SQL Programming offers tips and techniques in advanced programming. This book is the fourth edition and it consists of 39 chapters, starting with a comparison between databases and file systems. It covers transactions and currency control, schema level objects, locating data and schema numbers, base tables, and auxiliary tables. Furthermore, procedural, semi-procedural, and declarative programming are explored in this book. The book also presents the different normal forms in database normalization, including the first, second, third, fourth, fifth, elementary key, domain-key, and Boyce-Codd normal forms. It also offers practical hints for normalization and denormalization. The book discusses different data types, such as the numeric, temporal and character data types; the different predicates; and the simple and advanced SELECT statements. In addition, the book presents virtual tables, and it discusses data partitions in queries; grouping operations; simple aggregate functions; and descriptive statistics, matrices and graphs in SQL. The book concludes with a discussion about optimizing SQL. It will be of great value to SQL programmers. Expert advice from a noted SQL authority and award-winning columnist who has given ten years service to the ANSI SQL standards

committee Teaches scores of advanced techniques that can be used with any product, in any SQL environment, whether it is an SQL 92 or SQL 2008 environment Offers tips for working around deficiencies and gives insight into real-world challenges

**Optical Coherence and Quantum Optics** Leonard Mandel, Emil Wolf, 1995-09-29 This book presents a systematic account of optical coherence theory within the framework of classical optics, as applied to such topics as radiation from sources of different states of coherence, foundations of radiometry, effects of source coherence on the spectra of radiated fields, coherence theory of laser modes, and scattering of partially coherent light by random media.

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of the game is for one  
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the game players each  
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loyal agent political  
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terrorist mole because  
of the way these roles  
are dealt out it is  
possible in any game  
that there are no moles  
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