

My Random Randomness 800 Random Questions

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2021-03-19

DALE GAMBLE

Information Security Cambridge University Press

Some economic phenomena are predictable and controllable, and some are impos sible to foresee. Existing economic theories do not provide satisfactory answers as to what degree economic phenomena can be predicted and controlled, and in what situations. Against this background, people working on the financial front lines in real life have to rely on empirical rules based on experiments that often lack a solid foundation. "Econophysics" is a new science that analyzes economic phenomena empirically from a physical point of view, and it is being studied mainly to offer scientific, objective and significant answers to such problems. This book is the proceedings of the third Nikkei symposium on "Practical Fruits of Econophysics," held in Tokyo, November 9-11, 2004. In the first symposium held in 2000, empirical rules were established by analyzing high-frequency finan cial data, and various kinds of theoretical approaches were confirmed. In the second symposium, in 2002, the predictability of imperfections and of economic fluctua tions was discussed in detail, and methods for applying such studies were reported. The third symposium gave an overview of practical developments that can immedi ately be applied to the financial sector, or at least provide hints as to how to use the methodology.

Cryptography: The Key to Digital Security, How It Works, and Why It Matters Minnesota Historical Society

For decades we have witnessed the emergence of a media age of illusion that is based on the principles of physics—the multidimensionality, immateriality, and non-locality of the unified field of energy and information—as a virtual reality. As a result, a new paradigm shift has reframed the cognitive unconscious of individuals and collectives and generated a worldview in which mediated illusion prevails. Exploring the Collective Unconscious in a Digital Age investigates the cognitive significance of an altered mediated reality that appears to have all the dimensions of a dreamscape. This book presents the idea that if the digital media-sphere proves to be structurally and functionally analogous to a dreamscape, the Collective Unconscious researched by Carl Jung and the Cognitive Unconscious researched by George Lakoff are susceptible to research according to the parameters of hard science. This pivotal research-based publication is ideally designed for use by psychologists, theorists, researchers, and graduate-level students studying human cognition and the influence of the digital media revolution.

How the Mind Creates Mathematics F. A. Davis Company

This book constitutes the refereed proceedings of the 4th International Conference on Decision and Game Theory for Security, GameSec 2013, held in Fort Worth, TX, USA, in November 2013. The 15 revised full papers presented were carefully reviewed and selected from numerous submissions. The conference focuses on analytical models based on game, information, communication, optimization, decision, and control theories that are applied to diverse security topics. At the same time, the connection between theoretical models and real world security problems are emphasized to establish the important feedback loop between theory and practice. Observing the scarcity of venues for researchers who try to develop a deeper theoretical understanding of the underlying incentive and resource allocation issues in security, we believe that GameSec will fill an important void and serve as a distinguished forum of highest standards for years to come.

A Text and Workbook Springer

This book introduces the fundamentals of probability theory and random processes by demonstrating its application to real-world engineering problems. It connects theory and practice through an emphasis on mathematical modeling and promotes a hands-on approach to the subject. At every step of theoretical development, the student is invited to challenge the theory by asking "what-if" questions. Specially written Matlab programs, which are available at the text's Web site, encourage real data experimentation and facilitate the visual modeling of difficult probabilistic concepts. The modeling tools are clearly identified in every chapter and are accompanied by discussions of the applicability, power, and limitations of each tool. It is ideally suited for advanced undergraduates and graduate students in electrical and computer engineering.

Advances in Cryptology - ASIACRYPT 2016 IGI Global

Introduction to Statistical Investigations, Second Edition provides a unified framework for explaining variation across study designs and variable types, helping students increase their statistical literacy and appreciate the indispensable role of statistics in scientific research. Requiring only basic algebra as a prerequisite, the program uses the immersive, simulation-based inference approach for which the author team is known. Students engage with various aspects of data collection and analysis using real data and clear explanations designed to strengthen multivariable understanding and reinforce concepts. Each chapter follows a coherent six-step statistical exploration and investigation method (ask a research question, design a study, explore the data, draw inferences, formulate conclusions, and look back and ahead) enabling students to assess a variety of concepts in a single assignment. Challenging questions based on research articles strengthen critical reading skills, fully worked examples demonstrate essential concepts and methods, and engaging visualizations illustrate key themes of explained variation. The end-of-chapter investigations expose students to various applications of statistics in the real world using real data from popular culture and published research studies in variety of disciplines. Accompanying examples throughout the text, user-friendly applets enable students to conduct the simulations and analyses covered in the book.

Advances in Cryptology - EUROCRYPT 2015 GameMaker Studio 2 Introduction To Game Design & Programming

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.

A Certain Uncertainty Packt Publishing Ltd

Based around a series of real-life scenarios, this engaging introduction to statistical reasoning will teach you how to apply powerful statistical, qualitative and probabilistic tools in a technical context. From analysis of electricity bills, baseball statistics, and stock market fluctuations, through to profound questions about physics of fermions and bosons, decaying nuclei, and climate change, each chapter introduces relevant physical, statistical and mathematical principles step-by-step in an engaging narrative style, helping to develop practical proficiency in the use of probability and statistical reasoning. With numerous illustrations making it easy to focus on the most important information, this insightful book is perfect for students and researchers of any discipline interested in the interwoven tapestry of probability, statistics, and physics.

Nature's Random Ways W. W. Norton & Company

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

A Million Random Digits with 100,000 Normal Deviates Walter de Gruyter GmbH & Co KG

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

Advances in Big Data and Cloud Computing Apress

Practical Business Statistics, Eighth Edition, offers readers a practical, accessible approach to managerial statistics that carefully maintains, but does not overemphasize mathematical correctness. The book fosters deep understanding of both how to learn from data and how to deal with uncertainty, while promoting the use of practical computer applications. This trusted resource teaches present and future managers how to use and understand statistics without an overdose of technical detail, enabling them to better understand the concepts at hand and to interpret results. The text uses excellent examples with real world data relating to business sector functional areas such as finance, accounting, and marketing. Written in an engaging style, this timely revision is class-tested and designed to help students gain a solid understanding of fundamental statistical principles without bogging them down with excess mathematical details. Provides users with a conceptual, realistic, and matter-of-fact approach to managerial statistics Offers an accessible approach to teach present and future managers how to use and understand statistics without an overdose of technical detail, enabling them to better understand concepts and to interpret results Features updated examples and images to illustrate important applied uses and current business trends Includes robust ancillary instructional materials such as an instructor's manual, lecture slides, and data files

Modern Cryptography: Applied Mathematics for Encryption and Information Security Springer

The two-volume set, LNCS 8712 and LNCS 8713 constitutes the refereed proceedings of the 19th European Symposium on Research in Computer Security, ESORICS 2014, held in Wroclaw, Poland, in September 2014 The 58 revised full papers presented were carefully reviewed and selected from 234 submissions. The papers address issues such as cryptography, formal methods and theory of security, security services, intrusion/anomaly detection and malware mitigation, security in hardware, systems security, network security, database and storage security, software and application security, human and societal aspects of security and privacy.

22nd International Conference on the Theory and Application of Cryptology and Information Security, Hanoi, Vietnam, December 4-8, 2016, Proceedings, Part II iUniverse

The two volume-set, LNCS 8616 and LNCS 8617, constitutes the refereed proceedings of the 34th Annual International Cryptology Conference, CRYPTO 2014, held in Santa Barbara, CA, USA, in August 2014. The 60 revised full papers presented in LNCS 8616 and LNCS 8617 were carefully reviewed and selected from 227 submissions. The papers are organized in topical sections on symmetric encryption and PRFs; formal methods; hash functions; groups and maps; lattices; asymmetric encryption and signatures; side channels and leakage resilience; obfuscation; FHE; quantum cryptography; foundations of hardness; number-theoretic hardness; information-theoretic security; key exchange and secure communication; zero knowledge; composable security; secure computation - foundations; secure computation - implementations.

Practical Ethnography Springer Science & Business Media

The use of computation and simulation has become an essential part of the scientific process. Being able to transform a theory into an algorithm requires significant theoretical insight, detailed physical and mathematical understanding, and a working level of competency in programming. This upper-division text provides an unusually broad survey of the topics of modern computational physics from a multidisciplinary, computational science point of view. Its philosophy is rooted in learning by doing (assisted by many model programs), with new scientific materials as well as with the Python programming language. Python has become very popular, particularly for physics education and large scientific projects. It is probably the easiest programming language to learn for beginners, yet is also used for mainstream scientific computing, and has packages for excellent graphics and even symbolic manipulations. The text is designed for an upper-level undergraduate or beginning graduate course and provides the reader with the essential knowledge to understand computational tools and mathematical methods well enough to be successful. As part of the teaching of using computers to solve scientific problems, the reader is encouraged to work through a sample problem

stated at the beginning of each chapter or unit, which involves studying the text, writing, debugging and running programs, visualizing the results, and the expressing in words what has been done and what can be concluded. Then there are exercises and problems at the end of each chapter for the reader to work on their own (with model programs given for that purpose).

Pro Python 3 John Wiley & Sons

Our understanding of how the human brain performs mathematical calculations is far from complete. But in recent years there have been many exciting scientific discoveries, some aided by new imaging techniques--which allow us for the first time to watch the living mind at work--and others by ingenious experiments conducted by researchers all over the world. There are still perplexing mysteries--how, for instance, do idiot savants perform almost miraculous mathematical feats?--but the picture is growing steadily clearer. In *The Number Sense*, Stanislas Dehaene offers general readers a first look at these recent stunning discoveries, in an enlightening exploration of the mathematical mind. Dehaene, a mathematician turned cognitive neuropsychologist, begins with the eye-opening discovery that animals--including rats, pigeons, raccoons, and chimpanzees--can perform simple mathematical calculations, and he describes ingenious experiments that show that human infants also have a rudimentary number sense (American scientist Karen Wynn, for instance, using just a few Mickey Mouse toys and a small puppet theater, proved that five-month-old infants already have the ability to add and subtract). Further, Dehaene suggests that this rudimentary number sense is as basic to the way the brain understands the world as our perception of color or of objects in space, and, like these other abilities, our number sense is wired into the brain. But how then did the brain leap from this basic number ability to trigonometry, calculus, and beyond? Dehaene shows that it was the invention of symbolic systems of numerals that started us on the climb to higher mathematics, and in a marvelous chapter he traces the history of numbers, from early times when people indicated a number by pointing to a part of their body (even today, in many societies in New Guinea, the word for six is "wrist"), to early abstract numbers such as Roman numerals (chosen for the ease with which they could be carved into wooden sticks), to modern numbers. On our way, we also discover many fascinating facts: for example, because Chinese names for numbers are so short, Chinese people can remember up to nine or ten digits at a time--English-speaking people can only remember seven. Dehaene also explores the unique abilities of idiot savants and mathematical geniuses, asking what might explain their special mathematical talent. And we meet people whose minute brain lesions render their mathematical ability useless--one man, in fact, who is certain that two and two is three. Using modern imaging techniques (PET scans and MRI), Dehaene reveals exactly where in the brain numerical calculation takes place. But perhaps most important, *The Number Sense* reaches many provocative conclusions that will intrigue anyone interested in mathematics or the mind. Dehaene argues, for instance, that many of the difficulties that children face when learning math, and which may turn into a full-blown adult "innumeracy," stem from the architecture of our primate brain, which has not evolved for the purpose of doing mathematics. He also shows why the human brain does not work like a computer, and that the physical world is not based on mathematics--rather, mathematics evolved to explain the physical world the way that the eye evolved to provide sight. A truly fascinating look at the crossroads where numbers and neurons intersect, *The Number Sense* offers an intriguing tour of how the structure of the brain shapes our mathematical abilities, and how our mathematics opens up a window on the human mind.

PC Mag Pearson Higher Education AU

Ethnography is an increasingly important research method in the private sector, yet ethnographic literature continues to focus on an academic audience. Sam Ladner fills the gap by advancing rigorous ethnographic practice that is tailored to corporate settings where colleagues are not steeped in social theory, research time lines may be days rather than months or years, and research sponsors expect actionable outcomes and recommendations. Ladner provides step-by-step guidance at every turn--covering core methods, research design, using the latest mobile and digital technologies, project and client management, ethics, reporting, and translating your findings into business strategies. This book is the perfect resource for private-sector researchers, designers, and managers seeking robust ethnographic tools or academic researchers hoping to conduct research in corporate settings. More information on the book is available at <http://www.practicaletnography.com/>.

The Number Sense : How the Mind Creates Mathematics Springer

The two-volume proceedings LNCS 9056 + 9057 constitutes the proceedings of the 34th Annual International Conference on the Theory and Applications of Cryptographic Techniques, EUROCRYPT 2015, held in Sofia, Bulgaria, in April 2015. The 57 full papers included in these volumes were

carefully reviewed and selected from 194 submissions. The papers are organized in topical sections named: honorable mentions, random number generators, number field sieve, algorithmic cryptanalysis, symmetric cryptanalysis, hash functions, evaluation implementation, masking, fully homomorphic encryption, related-key attacks, fully homomorphic encryption, efficient two-party protocols, symmetric cryptanalysis, lattices, signatures, zero-knowledge proofs, leakage-resilient cryptography, garbled circuits, crypto currencies, secret sharing, outsourcing computations, obfuscation and e-voting, multi-party computations, encryption, resistant protocols, key exchange, quantum cryptography, and discrete logarithms.

Weedpatch Gazette for 1997 John Wiley & Sons

The three volume-set LNCS 11476, 11477, and 11478 constitute the thoroughly refereed proceedings of the 38th Annual International Conference on the Theory and Applications of Cryptographic Techniques, EUROCRYPT 2019, held in Darmstadt, Germany, in May 2019. The 76 full papers presented were carefully reviewed and selected from 327 submissions. The papers are organized into the following topical sections: ABE and CCA security; succinct arguments and secure messaging; obfuscation; block ciphers; differential privacy; bounds for symmetric cryptography; non-malleability; blockchain and consensus; homomorphic primitives; standards; searchable encryption and ORAM; proofs of work and space; secure computation; quantum, secure computation and NIZK, lattice-based cryptography; foundations; efficient secure computation; signatures; information-theoretic cryptography; and cryptanalysis.

Random Number Generators--Principles and Practices Ben Tyers

GameMaker Studio 2 Introduction To Game Design & Programming Ben Tyers

Features and Tools for Professional Development Academic Press

Protect your organization from scandalously easy-to-hack MFA security "solutions" Multi-Factor Authentication (MFA) is spreading like wildfire across digital environments. However, hundreds of millions of dollars have been stolen from MFA-protected online accounts. How? Most people who use multifactor authentication (MFA) have been told that it is far less hackable than other types of authentication, or even that it is unhackable. You might be shocked to learn that all MFA solutions are actually easy to hack. That's right: there is no perfectly safe MFA solution. In fact, most can be hacked at least five different ways. Hacking Multifactor Authentication will show you how MFA works behind the scenes and how poorly linked multi-step authentication steps allows MFA to be hacked and compromised. This book covers over two dozen ways that various MFA solutions can be hacked, including the methods (and defenses) common to all MFA solutions. You'll learn about the various types of MFA solutions, their strengths and weaknesses, and how to pick the best, most defensible MFA solution for your (or your customers') needs. Finally, this book reveals a simple method for quickly evaluating your existing MFA solutions. If using or developing a secure MFA solution is important to you, you need this book. Learn how different types of multifactor authentication work behind the scenes See how easy it is to hack MFA security solutions--no matter how secure they seem Identify the strengths and weaknesses in your (or your customers') existing MFA security and how to mitigate Author Roger Grimes is an internationally known security expert whose work on hacking MFA has generated significant buzz in the security world. Read this book to learn what decisions and preparations your organization needs to take to prevent losses from MFA hacking. *Computer Security - ESORICS 2014* McGraw Hill Professional

This comprehensive guide to modern data encryption makes cryptography accessible to information security professionals of all skill levels--with no math expertise required Cryptography underpins today's cyber-security; however, few information security professionals have a solid understanding of these encryption methods due to their complex mathematical makeup. *Modern Cryptography: Applied Mathematics for Encryption and Information Security* leads readers through all aspects of the field, providing a comprehensive overview of cryptography and practical instruction on the latest encryption methods. The book begins with an overview of the evolution of cryptography and moves on to modern protocols with a discussion of hashes, cryptanalysis, and steganography. From there, seasoned security author Chuck Easttom provides readers with the complete picture--full explanations of real-world applications for cryptography along with detailed implementation instructions. Unlike similar titles on the topic, this reference assumes no mathematical expertise--the reader will be exposed to only the formulas and equations needed to master the art of cryptography. Concisely explains complex formulas and equations and makes the math easy Teaches even the information security novice critical encryption skills Written by a globally-recognized security expert who has taught cryptography to various government and civilian groups and organizations around the world