

Babylonian Method Of Computing The Square Root

How Interval and Fuzzy Techniques Can Improve Teaching

This book explains how to teach better and presents the latest research on processing educational data and presents traditional statistical techniques as well as probabilistic, interval, and fuzzy approaches. Teaching is a very rewarding activity; it is also a very difficult one – because it is largely an art. There is a lot of advice on teaching available, but it is usually informal and is not easy to follow. To remedy this situation, it is reasonable to use techniques specifically designed to handle such imprecise knowledge: the fuzzy logic techniques. Since there are a large number of statistical studies of different teaching techniques, the authors combined statistical and fuzzy approaches to process the educational data in order to provide insights into improving all the stages of the education process: from forming a curriculum to deciding in which order to present the material to grading the assignments and exams. The authors do not claim to have solved all the problems of education. Instead they show, using numerous examples, that an innovative combination of different uncertainty techniques can improve teaching. The book offers teachers and instructors valuable advice and provides researchers in pedagogical and fuzzy areas with techniques to further advance teaching.

Schaum's Outline of Fundamentals of Computing with C++

This powerful study tool is the best tutor you can have if you want top grades and thorough understanding of the fundamentals of computing with C++, the computing language taught at 83% of all colleges. This student-friendly study guide leads you step-by-step through the entire computer science course, giving you 420 problems with fully worked solutions and easy-to-follow examples for every new topic. You get complete explanations of data abstraction, recursion, Standard C++ container classes, searching, sorting algorithms, and other complex concepts, simplified and illustrated so they're easy to grasp. You also get additional practice problems to solve on your own, working at your own speed. This superb study guide covers the entire course, from logic to libraries. If you're taking introduction to computer science, this book will be your best friend. It's perfect for independent study, too!

Computing with C# and the .NET Framework

A traditional CS1 text using C#, Computing with C# demystifies the art of programming with C# through an introduction rich with clear explanations and intuitive examples. The text serves as an accessible and thorough guide to object-oriented and event-driven programming concepts. Students develop a mastery of objects through the author's spiral teaching approach: first straightforward examples are presented, then simple class design, and finally the more difficult aspects of inheritance and polymorphism. The author applies this approach throughout the text, and students acquire a meaningful understanding of programming concepts and techniques.

Java Coding Problems

Stay on top of the new Java features (up to JDK 21) and find efficient solutions for your programming woes. With over 250 problems and solutions, you'll learn new ways to deal with real-world coding tasks and answers to common interview questions. Purchase of the print or Kindle book includes a free PDF eBook Key Features Solve Java programming challenges and get interview-ready with the power of modern Java 21 Test your Java skills using language features, algorithms, data structures, and design patterns Explore tons of examples, all fully refreshed for this edition, meant to help you accommodate JDK 12 to JDK 21 Book DescriptionThe super-fast evolution of the JDK between versions 12 and 21 has made the learning curve of modern Java steeper, and increased the time needed to learn it. This book will make your learning journey quicker and increase your willingness to try Java's new features by explaining the correct practices and decisions related to complexity, performance, readability, and more. Java Coding Problems takes you through Java's latest features but doesn't always advocate the use of new solutions — instead, it focuses on revealing the trade-offs involved in deciding what's the best solution for a certain problem. There are more than two hundred brand new and carefully selected problems in this second edition, chosen to highlight and cover the core everyday challenges of a Java programmer. Apart from obtaining a comprehensive compendium of problem-solutions based on real-world examples, this book will also give you the confidence to answer questions related to matching particular streams and methods to various problems. By the end of this Java coding book you will have; gained a strong understanding of Java's new features, have the confidence to develop and choose the right solutions to your problems, and even know how to answer Java interview questions.What you will learn Adopt the

latest JDK 21 features in your applications Explore Records, Record Patterns, Record serialization and so on Work with Sealed Classes and Interfaces for increasing encapsulation Learn how to exploit Context-Specific Deserialization Filters Solve problems relating to collections and esoteric data structures Learn advanced techniques for extending the Java functional API Explore the brand-new Socket API and Simple Web Server Tackle modern Garbage Collectors and Dynamic CDS Archives Who this book is for If you are a Java developer who wants to level-up by solving real-world problems, then this book is for you. Working knowledge of the Java programming language is required to get the most out of this book

Mathematical Thinking

This textbook invites readers to explore mathematical thinking by finding the beauty in the subject. With an accessible tone and stimulating puzzles, the author will convince curious non-mathematicians to continue their studies in the area. It has an expansive scope, covering everything from probability and graph theory to infinities and Newton’s method. Many examples of proofs appear as well, offering readers the opportunity to explore these topics with the amount of rigor that suits them. Programming exercises in Python are also included to show how math behaves in action. Mathematical Thinking is an ideal textbook for transition courses aimed at undergraduates moving from lower level to more advanced topics, as well as for math recruitment and invitational courses at the freshman or sophomore level. It may also be of interest in computer science departments and can be used as a supplemental text for courses in discrete mathematics and graph theory.

Rediscovering Mathematics

A guide to effective mathematical education, including a collection of topics and puzzles which aim to reignite interest in mathematics.

Numerical Methods for Scientific Computing

A comprehensive guide to the theory, intuition, and application of numerical methods in linear algebra, analysis, and differential equations. With extensive commentary and code for three essential scientific computing languages: Julia, Python, and Matlab.

Scientific Programming

This book offers an introduction to computer programming, numerical analysis, and other mathematical ideas that extend the basic topics learned in calculus. It illustrates how mathematicians and scientists write computer programs, covering the general building blocks of programming languages and a description of how these concepts fit together to allow computers to produce the results they do. Topics explored here include binary arithmetic, algorithms for rendering graphics, the smooth interpolation of discrete data, and the numerical approximation of non-elementary integrals. The book uses an open-source computer algebra system called Maxima. Using Maxima, first-time programmers can perform familiar tasks, such as graphing functions or solving equations, and learn the basic structures of programming before moving on to other popular programming languages. The epilogue provides some simple examples of how this process works in practice. The book will particularly appeal to students who have finished their calculus sequence.

Numerical Methods I - Basis and Fundamentals

Numerički postupci II: Korjeni i sustavi jednađzbi Numerische Methoden II: Wurzeln und sistemas gleichungs Métodos Numéricos II: Raíces y sistemas de ecuaciones Численные методы II: Корни и системс уравнений

The Six Pillars of Calculus: Business Edition

The Six Pillars of Calculus: Business Edition is a conceptual and practical introduction to differential and integral calculus for use in a one- or two-semester course. By boiling calculus down to six common-sense ideas, the text invites students to make calculus an integral part of how they view the world. Each pillar is introduced by tackling and solving a challenging, realistic problem. This engaging process of discovery encourages students to wrestle with the material and understand the reasoning behind the techniques they are learning—to focus on when and why to use the tools of calculus, not just on how to apply formulas. Modeling and differential equations are front and center. Solutions begin with numerical approximations; derivatives and integrals emerge naturally as refinements of those approximations.

Students use and modify computer programs to reinforce their understanding of each algorithm. The Business Edition of the Six Pillars series has been extensively field-tested at the University of Texas. It features hundreds of examples and problems designed specifically for business students. The core ideas are introduced by modeling market penetration of a new product, tracking changes in the national debt, and maximizing the profit of a business. Along the way, students learn about present value, consumer and producer surplus, amortization, and probability.

Algebraic Methods in General Rough Sets

This unique collection of research papers offers a comprehensive and up-to-date guide to algebraic approaches to rough sets and reasoning with vagueness. It bridges important gaps, outlines intriguing future research directions, and connects algebraic approaches to rough sets with those for other forms of approximate reasoning. In addition, the book reworks algebraic approaches to axiomatic granularity. Given its scope, the book offers a valuable resource for researchers and teachers in the areas of rough sets and algebras of rough sets, algebraic logic, non classical logic, fuzzy sets, possibility theory, formal concept analysis, computational learning theory, category theory, and other formal approaches to vagueness and approximate reasoning. Consultants in AI and allied fields will also find the book to be of great practical value.

Programming Languages

Programming Languages: An Active Learning Approach introduces students to three programming paradigms: object-oriented/imperative languages using C++ and Ruby, functional languages using Standard ML, and logic programming using Prolog. This interactive textbook is intended to be used in and outside of class. Each chapter follows a pattern of presenting a topic followed by a practice exercise or exercises that encourage students to try what they have just read. This textbook is best-suited for students with a 2-3 course introduction to imperative programming. Key Features: (1) Accessible structure guides the student through various programming languages. (2) Seamlessly integrated practice exercises. (3) Classroom-tested. (4) Online support materials. Advance praise: "The Programming Languages book market is overflowing with books, but none like this. In many ways, it is precisely the book I have been searching for to use in my own programming languages course. One of the main challenges I perpetually face is how to teach students to program in functional and logical languages, but also how to teach them about compilers. This book melds the two approaches very well." -- David Musicant, Carleton College

The Untold Story of Native Iraqis

The Untold Story of Native Iraqis Chaldean Mesopotamians 5300 BC – Present by: Amer Hanna-Fatuhi A groundbreaking work that further explores the true identity of the indigenous people of Iraq, Chaldean-Mesopotamians is presented in the compelling book titled The Untold Story of Native Iraqis written by author Amer Hanna-Fatuhi. Hanna-Fatuhi worked for two years and spent over a quarter of a century researching the history of the region. This book perfectly illuminates the antiquity of Babylon and the indigenous people of the region next to other well known and obscure ethnic groups. It allows for a more profound awareness of the Iraqi people's individuality as well as the country's social and political dynamics.

Computational Intelligence, Optimization and Inverse Problems with Applications in Engineering

This book focuses on metaheuristic methods and its applications to real-world problems in Engineering. The first part describes some key metaheuristic methods, such as Bat Algorithms, Particle Swarm Optimization, Differential Evolution, and Particle Collision Algorithms. Improved versions of these methods and strategies for parameter tuning are also presented, both of which are essential for the practical use of these important computational tools. The second part then applies metaheuristics to problems, mainly in Civil, Mechanical, Chemical, Electrical, and Nuclear Engineering. Other methods, such as the Flower Pollination Algorithm, Symbiotic Organisms Search, Cross-Entropy Algorithm, Artificial Bee Colonies, Population-Based Incremental Learning, Cuckoo Search, and Genetic Algorithms, are also presented. The book is rounded out by recently developed strategies, or hybrid improved versions of existing methods, such as the Lightning Optimization Algorithm, Differential Evolution with Particle Collisions, and Ant Colony Optimization with Dispersion – state-of-the-art approaches for the application of computational intelligence to engineering problems. The wide variety of methods and applications, as well as the original results to problems of practical engineering interest, represent the primary differentiation and distinctive quality of this book. Furthermore, it gathers contributions by authors from four countries – some of which are the original proponents of the methods presented – and 18 research

centers around the globe.

Applied Computer Science

The second edition of this introductory text includes an expanded treatment of collisions, agent-based models, and insight into underlying system dynamics. Lab assignments are accessible and carefully sequenced for maximum impact. Students are able to write their own code in building solutions and Python is used to minimize any language barrier for beginners. Problems involving visualization are emphasized throughout with interactive graphics, image files, and plots of generated data. This text aims to establish a core learning experience around which any number of other learning objectives could be included. The text is presented in eight chapters where each chapter contains three problems and each problem develops five specific lab assignments, plus additional questions and discussion. This approach seeks to leverage the immediate feedback provided by the computer to help students as they work toward writing code creatively. All labs will scale to available hardware and free software could be used for the entire course, if desired. Lab assignments have been used since 2011 at the #1 ranked U.S. high school. It is an ideal textbook for high school courses that prepare students for advanced placement tests.

Interactive Theorem Proving

This book constitutes the refereed proceedings of the 4th International Conference on Interactive Theorem Proving, ITP 2013, held in Rennes, France, in July 2013. The 26 regular full papers presented together with 7 rough diamond papers, 3 invited talks, and 2 invited tutorials were carefully reviewed and selected from 66 submissions. The papers are organized in topical sections such as program verification, security, formalization of mathematics and theorem prover development.

Coming Home to Math

We use numbers here, there and everywhere -- Numbers are some of my favorite things -- Linking numbers : operations on numbers -- Words and numbers : being careful -- Writing really big and really small numbers, and those in-between -- Touching all bases, at times with logs -- Numbers need to be exact, but it ain't necessarily so -- The different types of numbers have not evolved, but our understanding of them has -- Really, really big and really, really small numbers -- The whole truth of whole numbers -- The math of the digital world : modular arithmetic (or using number leftovers) -- The math of what will be : progressions of growth and decay -- Untangling the worlds of probability and statistics -- The math of what might be : probability - what are the odds? -- The math of what was : statistics - the good, the bad, and the evil -- The math of big data -- The math of optimization, ranking, voting, and allocation -- The math of gaming -- The math of risk.

Ordinary Differential Equations

In the traditional curriculum, students rarely study nonlinear differential equations and nonlinear systems due to the difficulty or impossibility of computing explicit solutions manually. Although the theory associated with nonlinear systems is advanced, generating a numerical solution with a computer and interpreting that solution are fairly elementary. Bringing the computer into the classroom, Ordinary Differential Equations: Applications, Models, and Computing emphasizes the use of computer software in teaching differential equations. Providing an even balance between theory, computer solution, and application, the text discusses the theorems and applications of the first-order initial value problem, including learning theory models, population growth models, epidemic models, and chemical reactions. It then examines the theory for n-th order linear differential equations and the Laplace transform and its properties, before addressing several linear differential equations with constant coefficients that arise in physical and electrical systems. The author also presents systems of first-order differential equations as well as linear systems with constant coefficients that arise in physical systems, such as coupled spring-mass systems, pendulum systems, the path of an electron, and mixture problems. The final chapter introduces techniques for determining the behavior of solutions to systems of first-order differential equations without first finding the solutions. Designed to be independent of any particular software package, the book includes a CD-ROM with the software used to generate the solutions and graphs for the examples. The appendices contain complete instructions for running the software. A solutions manual is available for qualifying instructors.

Computer Science

The book focuses on both theory and applications in the broad areas of communication technology, computer science and information security. This two volume book contains the Proceedings of

International Conference on Advanced Computing and Intelligent Engineering. These volumes bring together academic scientists, professors, research scholars and students to share and disseminate information on knowledge and scientific research works related to computing, networking, and informatics to discuss the practical challenges encountered and the solutions adopted. The book also promotes translation of basic research into applied investigation and convert applied investigation into practice.

Progress in Advanced Computing and Intelligent Engineering

Originally, my intention was to write a \"History of Algebra\"

Geometry and Algebra in Ancient Civilizations

The volume LNAI 12179 constitutes the proceedings of the International Joint Conference on Rough Sets, IJCRS 2020, which was due to be held in Havana, Cuba, in June 2020. The conference was held virtually due to the COVID-19 pandemic. The 37 full papers accepted were carefully reviewed and selected from 50 submissions. The papers are grouped in the following topical sections: general rough sets; three-way decision theory; attribute reduction; granular computing; formal concept analysis; data summarization; community detection; fuzzy cognitive maps; tutorials.

A Mathematical Tour of Functions

Algorithms play an increasingly important role in nearly all fields of mathematics. This book allows readers to develop basic mathematical abilities, in particular those concerning the design and analysis of algorithms as well as their implementation. It presents not only fundamental algorithms like the sieve of Eratosthenes, the Euclidean algorithm, sorting algorithms, algorithms on graphs, and Gaussian elimination, but also discusses elementary data structures, basic graph theory, and numerical questions. In addition, it provides an introduction to programming and demonstrates in detail how to implement algorithms in C++. This textbook is suitable for students who are new to the subject and covers a basic mathematical lecture course, complementing traditional courses on analysis and linear algebra. Both authors have given this \"Algorithmic Mathematics\" course at the University of Bonn several times in recent years.

Rough Sets

Originally published: New York: Holt, Rinehart and Winston, 1973. Enlarged and corrected edition published: New York: Dover Publications, 1984.

Algorithmic Mathematics

How mathematics shaped and was shaped by human events. Trigonometry, navigation, cartography, algebra, calculus and related disciplines from ancient Greece through the twentieth century. Bibliography. 203 figures. 7 tables. 14 photos.

Mathematics in Civilization, Third Edition

This book explores the most significant computational methods and the history of their development. It begins with the earliest mathematical / numerical achievements made by the Babylonians and the Greeks, followed by the period beginning in the 16th century. For several centuries the main scientific challenge concerned the mechanics of planetary dynamics, and the book describes the basic numerical methods of that time. In turn, at the end of the Second World War scientific computing took a giant step forward with the advent of electronic computers, which greatly accelerated the development of numerical methods. As a result, scientific computing became established as a third scientific method in addition to the two traditional branches: theory and experimentation. The book traces numerical methods’ journey back to their origins and to the people who invented them, while also briefly examining the development of electronic computers over the years. Featuring 163 references and more than 100 figures, many of them portraits or photos of key historical figures, the book provides a unique historical perspective on the general field of scientific computing – making it a valuable resource for all students and professionals interested in the history of numerical analysis and computing, and for a broader readership alike.

Mathematics in Civilization

Volume 1 of an authoritative two-volume set that covers the essentials of mathematics and includes every landmark innovation and every important figure. This volume features Euclid, Apollonius, others.

Scientific Computing

Mathematics Across Cultures: A History of Non-Western Mathematics consists of essays dealing with the mathematical knowledge and beliefs of cultures outside the United States and Europe. In addition to articles surveying Islamic, Chinese, Native American, Aboriginal Australian, Inca, Egyptian, and African mathematics, among others, the book includes essays on Rationality, Logic and Mathematics, and the transfer of knowledge from East to West. The essays address the connections between science and culture and relate the mathematical practices to the cultures which produced them. Each essay is well illustrated and contains an extensive bibliography. Because the geographic range is global, the book fills a gap in both the history of science and in cultural studies. It should find a place on the bookshelves of advanced undergraduate students, graduate students, and scholars, as well as in libraries serving those groups.

A History of Greek Mathematics

Annotation This powerful study tool is the best tutor you can have if you want top grades and thorough understanding of programming with Java, the computing language being taught as a basic at more and more colleges. This student-friendly study guide leads you step-by-step through the entire beginning computer science course, giving you hundreds of problems with fully worked solutions and easy-to-follow examples for every new topic. You get complete explanations of strings, arrays, loops, graphics, GUIs, classes and objects, exception handling, and more. With this guide, which works alone or with any text, you can learn to create the most-wanted Net applications, such as animations and audio streams. Schaums are the most popular study guide in the world, and this guide will show you why!

Mathematics Across Cultures

Intuitionistic type theory can be described, somewhat boldly, as a partial fulfillment of the dream of a universal language for science. This book expounds several aspects of intuitionistic type theory, such as the notion of set, reference vs. computation, assumption, and substitution. Moreover, the book includes philosophically relevant sections on the principle of compositionality, lingua caratteristica, epistemology, propositional logic, intuitionism, and the law of excluded middle. Ample historical references are given throughout the book.

Schaum's Outline of Theory and Problems of Programming with Java

Mathematical Time Capsules offers teachers historical modules for immediate use in the mathematics classroom. Readers will find articles and activities from mathematics history that enhance the learning of topics covered in the undergraduate or secondary mathematics curricula. Each capsule presents at least one topic or a historical thread that can be used throughout a course. The capsules were written by experienced practitioners to provide teachers with historical background and classroom activities designed for immediate use in the classroom, along with further references and resources on the chapter subject. --Publisher description.

Treatise on Intuitionistic Type Theory

Applying Maths in the Chemical and Biomolecular Sciences uses an extensive array of examples to demonstrate how mathematics is applied to probe and understand chemical and biological systems. It also embeds the use of software, showing how the application of maths and use of software now go hand-in-hand.

Mathematical Time Capsules

Explore practical LaTeX examples across various fields like mathematics, physics, chemistry, and computer science, and learn to quickly create tables, diagrams, and plots for your thesis, presentations, and articles Key Features Work with ready-to-use document templates to write articles, books, a thesis, and more Refine text, fonts, formulas, and tables, and optimize PDF properties Create captivating graphics directly within LaTeX in 2D and 3D Purchase of the print or Kindle book includes a free PDF

eBook Book DescriptionThe second edition of LaTeX Cookbook offers improved and additional examples especially for users in science and academia, with a focus on new packages for creating graphics with LaTeX. This edition also features an additional chapter on ChatGPT use to improve content, streamline code, and automate tasks, thereby saving time. This book is a practical guide to utilizing the capabilities of modern document classes and exploring the functionalities of the newest LaTeX packages. Starting with familiar document types like articles, books, letters, posters, leaflets, and presentations, it contains detailed tutorials for refining text design, adjusting fonts, managing images, creating tables, and optimizing PDFs. It also covers elements such as the bibliography, glossary, and index. You'll learn to create graphics directly within LaTeX, including diagrams and plots, and explore LaTeX's application across various fields like mathematics, physics, chemistry, and computer science. The book's website offers online compilable code, an example gallery, and supplementary information related to the book, including the author's LaTeX forum, where you can get personal support. By the end of this book, you'll have the skills to optimize productivity through practical demonstrations of effective LaTeX usage in diverse scenarios.

What you will learn Utilize various document classes and incorporate bibliography, glossary, and index sections Handle arranging and annotating images with ease Create visually appealing tables and learn how to manage fonts efficiently Generate diverse and colorful graphics, including diagrams, flow charts, bar charts, trees, and both 2D and 3D plots Solve writing and drawing tasks across various scientific disciplines Optimize PDF output, enhancing it with metadata, annotations, popups, animations, and fill-in fields Leverage ChatGPT to improve content and code Who this book is for If you're a LaTeX user in school, academia, or industry with a foundational understanding of LaTeX basics, this book offers efficient solutions to expedite your tasks. Tailored to students, teachers, authors, and engineers, its example-driven format enables quick access to solutions. Familiarity with basic LaTeX syntax and using LaTeX with your preferred editor for compiling is recommended to make the most of this book.

Applying Maths in the Chemical and Biomolecular Sciences

This book presents detailed studies of the development of three kinds of number. In the first part the development of the natural numbers from Stone-Age times right up to the present day is examined not only from the point of view of pure history but also taking into account archaeological, anthropological and linguistic evidence. The dramatic change caused by the introduction of logical theories of number in the 19th century is also treated and this part ends with a non-technical account of the very latest developments in the area of Gödel's theorem. The second part is concerned with the development of complex numbers and tries to answer the question as to why complex numbers were not introduced before the 16th century and then, by looking at the original materials, shows how they were introduced as a pragmatic device which was only subsequently shown to be theoretically justifiable. The third part concerns the real numbers and examines the distinction that the Greeks made between number and magnitude. It then traces the gradual development of a theory of real numbers up to the precise formulations in the nineteenth century. The importance of the Greek distinction between the number line and the geometric line is brought into sharp focus.

This is an new edition of the book which first appeared privately published in 1980 and is now out of print. Substantial revisions have been made throughout the text, incorporating new material which has recently come to light and correcting a few relatively minor errors. The third part on real numbers has been very extensively revised and indeed the last chapter has been almost completely rewritten. Many revisions are the results of comments from earlier readers of the book.

LaTeX Cookbook

"Praised for providing an engaging balance of thoughtful examples and illustrative discussion, Absolute Java, Fourth Edition, is the most comprehensive book available for both beginning and intermediate Java programming students. Best-selling author Walter Savitch and contributor Kenrick Mock explain Java programming in a straightforward style using clear language as well as code enhanced by a suite of pedagogical tools. Its features include: coverage of web programming with JSP that introduces readers to the client/server side model; an extensive set of videonotes, step-by-step video tutorials, that bring programming concepts to life and allow beginning students to see first-hand how experienced programmers solve problems; and additional programming projects that offer even more opportunity for programming practice."

--Publisher's description.

The Emergence of Number

Annotation SAS/IML software is a powerful tool for data analysts because it enables implementation of statistical algorithms that are not available in any SAS procedure. Rick Wicklin's Statistical Programming with SAS/IML Software is the first book to provide a comprehensive description of the software and how to use it. He presents tips and techniques that enable you to use the IML procedure and the SAS/IML Studio application efficiently. In addition to providing a comprehensive introduction to the software, the book also shows how to create and modify statistical graphs, call SAS procedures and R functions from a SAS/IML program, and implement such modern statistical techniques as simulations and bootstrap

methods in the SAS/IML language. Written for data analysts working in all industries, graduate students, and consultants, Statistical Programming with SAS/IML Software includes numerous code snippets and more than 100 graphs.

Absolute Java

There is a long-lasting controversy concerning our mind and consciousness. Mind, Brain, Quantum AI, and the Multiverse proposes a connection between the mind, the brain, and the multiverse. The author introduces the main philosophical ideas concerning mind and freedom, and explains the basic principles of computer science, artificial intelligence of brain research, quantum physics, and quantum artificial intelligence. He indicates how we can provide an answer to the problem of the mind and consciousness by describing the nature of the physical world. His proposed explanation includes the Everett Many-Worlds theory. This book tries to avoid any non-essential metaphysical speculations. The text is an essential compilation of knowledge in philosophy, computer science, biology, and quantum physics. It is written for readers without any requirements in mathematics, physics, or computer science.

Statistical Programming with SAS/IML Software

Data simulation is a fundamental technique in statistical programming and research. Rick Wicklin's Simulating Data with SAS brings together the most useful algorithms and the best programming techniques for efficient data simulation in an accessible how-to book for practicing statisticians and statistical programmers. This book discusses in detail how to simulate data from common univariate and multivariate distributions, and how to use simulation to evaluate statistical techniques. It also covers simulating correlated data, data for regression models, spatial data, and data with given moments. It provides tips and techniques for beginning programmers, and offers libraries of functions for advanced practitioners. As the first book devoted to simulating data across a range of statistical applications, Simulating Data with SAS is an essential tool for programmers, analysts, researchers, and students who use SAS software. This book is part of the SAS Press program.

Mind, Brain, Quantum AI, and the Multiverse

two main (interacting) ways. They constitute that with which exploration into problems or questions is carried out. But they also constitute that which is exchanged between scholars or, in other terms, that which is shaped by one (or by some) for use by others. In these various dimensions, texts obviously depend on the means and technologies available for producing, reproducing, using and organizing writings. In this regard, the contribution of a history of text is essential in helping us approach the various historical contexts from which our sources originate. However, there is more to it. While shaping texts as texts, the practitioners of the sciences may create new textual resources that intimately relate to the research carried on. One may think, for instance, of the process of introduction of formulas in mathematical texts. This aspect opens up a wholerangeofextremelyinterestingquestionstowhichwewillreturnatalaterpoint.But practitioners of the sciences also rely on texts produced by themselves or others, which they bring into play in various ways. More generally, they make use of textual resources of every kind that is available to them, reshaping them, restricting, or enlarging them. Among these, one can think of ways of naming, syntax of statements or grammatical analysis, literary techniques, modes of shaping texts or parts of text, genres of text and so on.Inthissense,thepractitionersdependon,anddrawon,the“textualcultures”available to the social and professional groups to which they belong.

Simulating Data with SAS

History of Science, History of Text

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