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I Want to Be a Mathematician: An Automathography
 A Concise Introduction to Pure Mathematics
 Nginx HTTP Server
 Introduction to Crystallography
 File System Forensic Analysis
 Solving Systems of Polynomial Equations
 Advanced Machining Processes
 Math and Architectures of Deep Learning
 Trends in Outside Support for Insurgent Movements
 Lectures on Differential Equations
 Calculus in Context
 Quantum Information Processing and Quantum Error Correction
 Consolidated Translation Survey
 Computational Algebraic Geometry
 101 Problems in Algebra
 Calculus
 Solving Polynomial Equations
 Between the Firmaments
 The Noun Phrase in the Languages of South America
 Principles of Solid Mechanics
 Chemical Engineering Design
 Beginning Python
 Twelve Sporadic Groups
 Radioman 3 & 2
 Functional Equations in Mathematical Olympiads (2017 - 2018)
 Micromechanics of Granular Materials
 Railway Engineering
 Before the Big Bang
 Analytical Methods in Vibrations
 Process Design Manual, Municipal Sludge Landfills
 Reading, Writing, and Proving
 Mobile Phones and Tablets Repairs
 Math for Programmers
 Operation of Wastewater Treatment Plants
 Introductory Computer Forensics
 Nonlinear Evolution of Spatio-Temporal Structures in Dissipative Continuous Systems
 A Dictionary of Chemical Engineering
 Fewnomials
 The Chef Next Door

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ANASTASIA BRAIDEN

I Want to Be a Mathematician: An Automathography Manning Publications

Math and Architectures of Deep Learning bridges the gap between theory and practice, laying out the math of deep learning side by side with practical implementations in Python and PyTorch. You'll peer inside the "black box" to understand how your code is working, and learn to comprehend cutting-edge research you can turn into practical applications. Math and Architectures of Deep Learning sets out the foundations of DL usefully and accessibly to working practitioners. Each chapter explores a new fundamental DL concept or architectural pattern, explaining the underpinning mathematics and demonstrating how they work in practice with well-annotated Python code. You'll start with a primer of basic algebra, calculus, and statistics, working your way up to state-of-the-art DL paradigms taken from the latest research. Learning mathematical foundations and neural network architecture can be challenging, but the payoff is big. You'll be free from blind reliance on pre-packaged DL models and able to build, customize, and re-architect for your specific needs. And when things go wrong, you'll be glad you can quickly identify and fix problems.

A Concise Introduction to Pure Mathematics American Mathematical Soc.

Railway Engineering has been specially designed for undergraduate students of civil engineering. From fundamental topics to modern technological developments, the book covers all aspects of the railways including various modernization plans covering tracks, locomotives, and rolling stock.

Important statistical data about the Indian Railways and other useful information have also been incorporated to make the coverage comprehensive.

A number of illustrative examples supplement text to aid easy understanding of design methods discussed. The book should also serve the need of students of polytechnics and those appearing of the AMIE examination and would also be a ready reference for railway professionals.

Nginx HTTP Server Elsevier

Quantum Information Processing and Quantum Error Correction is a self-contained, tutorial-based introduction to quantum information, quantum computation, and quantum error-correction. Assuming no knowledge of quantum mechanics and written at an intuitive level suitable for the engineer, the book gives all the essential principles needed to design and implement quantum electronic and photonic circuits. Numerous examples from a wide area of application are given to show how the principles can be implemented in practice. This book is ideal for the electronics, photonics and computer engineer who requires an easy- to-understand foundation on the principles of quantum information processing and quantum error correction, together with insight into how to develop quantum electronic and photonic circuits. Readers of this book will be ready for further study in this area, and will be prepared to perform independent research. The reader completed the book will be able design the information processing circuits, stabilizer codes, Calderbank-Shor-Steane (CSS) codes, subsystem codes, topological codes and entanglement-assisted quantum error correction codes; and propose corresponding physical implementation. The reader completed the book will be proficient in quantum fault-tolerant design as well. Unique Features Unique in covering both quantum information processing and quantum error correction - everything in one book that an engineer needs to understand and implement quantum-level circuits. Gives an intuitive understanding by not assuming knowledge of quantum

mechanics, thereby avoiding heavy mathematics. In-depth coverage of the design and implementation of quantum information processing and quantum error correction circuits. Provides the right balance among the quantum mechanics, quantum error correction, quantum computing and quantum communication. Dr. Djordjevic is an Assistant Professor in the Department of Electrical and Computer Engineering of College of Engineering, University of Arizona, with a joint appointment in the College of Optical Sciences. Prior to this appointment in August 2006, he was with University of Arizona, Tucson, USA (as a Research Assistant Professor); University of the West of England, Bristol, UK; University of Bristol, Bristol, UK; Tyco Telecommunications, Eatontown, USA; and National Technical University of Athens, Athens, Greece. His current research interests include optical networks, error control coding, constrained coding, coded modulation, turbo equalization, OFDM applications, and quantum error correction. He presently directs the Optical Communications Systems Laboratory (OCSL) within the ECE Department at the University of Arizona. Provides everything an engineer needs in one tutorial-based introduction to understand and implement quantum-level circuits Avoids the heavy use of mathematics by not assuming the previous knowledge of quantum mechanics Provides in-depth coverage of the design and implementation of quantum information processing and quantum error correction circuits

Introduction to Crystallography CRC Press

Improve your confidence and add joy to your home cooking with this beautiful, practical, full-color cookbook filled with information, techniques, and more than 100 recipes from the Food Network favorite and critically acclaimed chef of New York's Empire Diner restaurant. Amanda Freitag is a master at knocking out fabulous meals in her restaurant kitchen and on the set of Food Network's Chopped and Iron Chef America. But until recently, she was totally intimidated to cook at home in her tiny apartment kitchen, relating to the fears of many home cooks. She realized she wasn't alone! She set out to help other home cooks and created a list of restaurant-quality recipes that shine in the home kitchen. The Chef Next Door teaches home cooks a wide range of confidence-instilling skills, tricks, and tips that Amanda has picked up working in professional kitchens and cooking competitively on television. In her bright, lively voice, she helps you master the basic techniques that are the foundation of good, flavorful cooking. She also teaches you how to think like a chef—to consider seasonality, balancing flavors, understanding the steps, and learning how to improvise—to create a menu and execute dishes with pro techniques, as if she were right there in the kitchen with you. You'll find everything from the basics—sauces, marinades, stocks, and rubs—to first impressions, salads, and easy dinner recipes, and will even become skilled in making "The Scary Stuff"—recipes that may seem out of reach but are not. With The Chef Next Door, you'll be able to dazzle friends and family with a diverse range of dishes, such as Spinach Feta Pies, Kale and Farro Salad with Aged Goat Cheese, Lusty Lemon Chicken, Pop's Beer-Braised Bold Beef Stew, Mediterranean Potato Salad, Marinated Artichokes, Cocoa Carrot Cake, and more. Filled with beautiful color photographs that show how achievable good food really is, The Chef Next Door makes confident home cooking a breeze.

File System Forensic Analysis Book Smugglers Publishing

* Totaling 900 pages and covering all of the topics important to new and intermediate users, Beginning Python is intended to be the most comprehensive book on the Python ever written. * The 15 sample projects in Beginning Python are attractive to novice programmers interested in learning by creating applications of timely interest, such as a P2P file-sharing application, Web-based bulletin-board, and an arcade game similar to the classic Space Invaders. * The author Magnus Lie Hetland, PhD, is author of Apress' well-received 2002 title, Practical Python, ISBN: 1-59059-006-6. He's also author of the popular online guide, Instant Python Hacking (<http://www.hetland.org>), from which both Practical Python and Beginning Python are based.

Solving Systems of Polynomial Equations Academic Press

Chemical Engineering Design, Second Edition, deals with the application of chemical engineering principles to the design of chemical processes and equipment. Revised throughout, this edition has been specifically developed for the U.S. market. It provides the latest US codes and standards, including API, ASME and ISA design codes and ANSI standards. It contains new discussions of conceptual plant design, flowsheet development, and revamp design; extended coverage of capital cost estimation, process costing, and economics; and new chapters on equipment selection, reactor design, and solids handling processes. A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data, and Excel spreadsheet calculations, plus over 150 Patent References for downloading from the companion website. Extensive instructor resources, including 1170 lecture slides and a fully worked solutions manual are available to adopting instructors. This text is designed for chemical and biochemical engineering students (senior undergraduate year, plus appropriate for capstone design courses where taken, plus graduates) and lecturers/tutors, and professionals in industry (chemical process, biochemical, pharmaceutical, petrochemical sectors). New to this edition: - Revised organization into Part I: Process Design, and Part II: Plant Design. The broad themes of Part I are flowsheet development, economic analysis, safety and environmental impact and optimization. Part II contains chapters on equipment design and selection that can be used as supplements to a lecture course or as essential references for students or practicing engineers working on design projects. - New discussion of conceptual plant design, flowsheet development and revamp design - Significantly increased coverage of capital cost estimation, process costing and economics - New chapters on equipment selection, reactor design and solids handling processes - New sections on fermentation, adsorption, membrane separations, ion exchange and chromatography - Increased coverage of batch processing, food, pharmaceutical and biological processes - All equipment chapters in Part II revised and updated with current information - Updated throughout for latest US codes and standards, including API, ASME and ISA design codes and ANSI standards - Additional worked examples and homework problems - The most complete and up to date coverage of equipment selection - 108 realistic commercial design projects from diverse industries - A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data and Excel spreadsheet calculations plus over 150 Patent References, for downloading from the companion website - Extensive instructor resources: 1170 lecture slides plus fully worked solutions manual available to adopting instructors

Advanced Machining Processes St. Martin's Press

A Dictionary of Chemical Engineering is one of the latest additions to the market leading Oxford Paperback Reference series. In over 3,400 concise and authoritative A to Z entries, it provides definitions and explanations for chemical engineering terms in areas including: materials, energy balances, reactions, separations, sustainability, safety, and ethics. Naturally, the dictionary also covers many pertinent terms from the fields of

chemistry, physics, biology, and mathematics. Useful entry-level web links are listed and regularly updated on a dedicated companion website to expand the coverage of the dictionary. Comprehensively cross-referenced and complemented by over 60 line drawings, this excellent new volume is the most authoritative dictionary of its kind. It is an essential reference source for students of chemical engineering, for professionals in this field (as well as related disciplines such as applied chemistry, chemical technology, and process engineering), and for anyone with an interest in the subject.

Math and Architectures of Deep Learning Apress

"Published by OpenStax College, Calculus is designed for the typical two- or three-semester general calculus course, incorporating innovative features to enhance student learning. The book guides students through the core concepts of calculus and helps them understand how those concepts apply to their lives and the world around them. Due to the comprehensive nature of the material, we are offering the book in three volumes for flexibility and efficiency. Volume 2 covers integration, differential equations, sequences and series, and parametric equations and polar coordinates."--BC Campus website.

Trends in Outside Support for Insurgent Movements Mondraim Nig. Limited

In Math for Programmers you'll explore important mathematical concepts through hands-on coding. Filled with graphics and more than 300 exercises and mini-projects, this book unlocks the door to interesting—and lucrative!—careers in some of today's hottest fields. As you tackle the basics of linear algebra, calculus, and machine learning, you'll master the key Python libraries used to turn them into real-world software applications. Summary To score a job in data science, machine learning, computer graphics, and cryptography, you need to bring strong math skills to the party. Math for Programmers teaches the math you need for these hot careers, concentrating on what you need to know as a developer. Filled with lots of helpful graphics and more than 200 exercises and mini-projects, this book unlocks the door to interesting—and lucrative!—careers in some of today's hottest programming fields. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Skip the mathematical jargon: This one-of-a-kind book uses Python to teach the math you need to build games, simulations, 3D graphics, and machine learning algorithms. Discover how algebra and calculus come alive when you see them in code! About the book In Math for Programmers you'll explore important mathematical concepts through hands-on coding. Filled with graphics and more than 300 exercises and mini-projects, this book unlocks the door to interesting—and lucrative!—careers in some of today's hottest fields. As you tackle the basics of linear algebra, calculus, and machine learning, you'll master the key Python libraries used to turn them into real-world software applications. What's inside Vector geometry for computer graphics Matrices and linear transformations Core concepts from calculus Simulation and optimization Image and audio processing Machine learning algorithms for regression and classification About the reader For programmers with basic skills in algebra. About the author Paul Orland is a programmer, software entrepreneur, and math enthusiast. He is co-founder of Tachyus, a start-up building predictive analytics software for the energy industry. You can find him online at www.paulor.land. Table of Contents 1 Learning math with code PART 1 - VECTORS AND GRAPHICS 2 Drawing with 2D vectors 3 Ascending to the 3D world 4 Transforming vectors and graphics 5 Computing transformations with matrices 6 Generalizing to higher dimensions 7 Solving systems of linear equations PART 2 - CALCULUS AND PHYSICAL SIMULATION 8 Understanding rates of change 9 Simulating moving objects 10 Working with symbolic expressions 11 Simulating force fields 12 Optimizing a physical system 13 Analyzing sound waves with a Fourier series PART 3 - MACHINE LEARNING APPLICATIONS 14 Fitting functions to data 15 Classifying data with logistic regression 16 Training neural networks

Lectures on Differential Equations Cambridge University Press

Nearly all solids are comprised of grains. However most studies treat materials as a continuous solid. The book applies analysis used on loose granular materials to dense granular materials. This title's main focus is devoted to static or dynamic loadings applied to dense materials, although rapid flows and widely dispersed media are also mentioned briefly. Three essential areas are covered: Local variable analysis: Contact forces, displacements and rotations, orientation of contacting particles and fabric tensors are all examples of local variables. Their statistical distributions, such as spatial distribution and possible localization, are analyzed, taking into account experimental results or numerical simulations. Change of scales procedures: Also known as "homogenization techniques", these procedures make it possible to construct continuum laws to be used in a continuum mechanics approach or performing smaller scale analyses. Numerical modeling: Several methods designed to calculate approximate solutions of dynamical equations together with unilateral contact and frictional laws are presented, including molecular dynamics, the distinct element method and non-smooth contact dynamics. Numerical examples are given and the quality of numerical approximations is discussed.

Calculus in Context Rand Corporation

Mobile Phones and Tablets Repairs is a 364 page complete manual that answers all the basic and professional level questions for entrants into mobile computing devices technical support segment. The book takes the reader one step at a time, combining a strong theoretical knowledge base about mobile devices - how they function, description of their internal components, their internal electronics with tutorial on basic foundation electronics for repairs and merged it with descriptive easily practicable tutorials on both hardware and software related repair procedures for mobile phones and tablets. Information about cell phone hardware and software repair tools is covered with product listings and guides for success. If there is any complete guide-book on computer repairs ever known, then this book is the complete guide-book for mobile phones and tablets repairs! If you are seeking for a way by which you could exchange personal services for money, then this book is for you. It is a complete Do-It-Yourself Guide book. In book stores all over the world, there are hardly complete repair guides for mobile telephones and tablets repairs although you may find many for PCs. This book is for the young people, students, or anyone seeking for a good resource for practical learning towards self reliance. In this century, the age of mobile communication and computing, it is one of the hottest tech repair service segment. Through the pages of this book, a reader would train to become a great mobile phone technician with a brighter and faster earning potential than most PC technicians. What this book teaches is practicable towards becoming also, a good PC technician. The tutorials cover Microelectronic device dis-assembly and re-assembly, troubleshooting, BGA soldering, detailed electronics fundamentals, flash programming and many more. The book ends with a chapter of information on how to set up shop and efficiently manage a mobile repair services support center. Discover the secrets of mobile phone repair with this book!

Quantum Information Processing and Quantum Error Correction Springer Science & Business Media

Investigative report of the events leading to the raid of the Branch Davidian Compound near Waco, Texas, on February 28, 1993.

Consolidated Translation Survey Springer

The interplay between algebra and geometry is a beautiful (and fun!) area of mathematical investigation. Advances in computing and algorithms make it possible to tackle many classical problems in a down-to-earth and concrete fashion. This opens wonderful new vistas and allows us to pose, study and solve problems that were previously out of reach. Suitable for graduate students, the objective of this 2003 book is to bring advanced algebra to life with lots of examples. The first chapters provide an introduction to commutative algebra and connections to geometry. The rest of the book focuses on three active areas of contemporary algebra: Homological Algebra (the snake lemma, long exact sequence inhomology, functors and derived functors (Tor and Ext), and double complexes); Algebraic Combinatorics and Algebraic Topology (simplicial complexes and simplicial homology, Stanley-Reisner rings, upper bound theorem and polytopes); and Algebraic Geometry (points and curves in projective space, Riemann-Roch, Cech cohomology, regularity).

Computational Algebraic Geometry Allied Publishers

This book invites you on a systematic tour through the fascinating world of crystals and their symmetries. The reader will gain an understanding of the symmetry of external crystal forms (morphology) and become acquainted with all the symmetry elements needed to classify and describe crystal structures. The book explains the context in a very vivid, non-mathematical way and captivates with clear, high-quality illustrations. Online materials accompany the book; including 3D models the reader can explore on screen to aid in the spatial understanding of the structure of crystals. After reading the book, you will not only know what a space group is and how to read the International Tables for Crystallography, but will also be able to interpret crystallographic specifications in specialist publications. If questions remain, you also have the opportunity to ask the author on the book's website.

101 Problems in Algebra Simon and Schuster

Lectures on Differential Equations provides a clear and concise presentation of differential equations for undergraduates and beginning graduate students. There is more than enough material here for a year-long course. In fact, the text developed from the author's notes for three courses: the undergraduate introduction to ordinary differential equations, the undergraduate course in Fourier analysis and partial differential equations, and a first graduate course in differential equations. The first four chapters cover the classical syllabus for the undergraduate ODE course leavened by a modern awareness of computing and qualitative methods. The next two chapters contain a well-developed exposition of linear and nonlinear systems with a similarly fresh approach. The final two chapters cover boundary value problems, Fourier analysis, and the elementary theory of PDEs. The author makes a concerted effort to use plain language and to always start from a simple example or application. The presentation should appeal to, and be readable by, students, especially students in engineering and science. Without being excessively theoretical, the book does address a number of unusual topics: Massera's theorem, Lyapunov's inequality, the isoperimetric inequality, numerical solutions of nonlinear boundary value problems, and more. There are also some new approaches to standard topics including a rethought presentation of series solutions and a nonstandard, but more intuitive, proof of the existence and uniqueness theorem. The collection of problems is especially rich and contains many very challenging exercises.

Best Sellers - Books :

- [The Mountain Is You: Transforming Self-sabotage Into Self-mastery By Brianna Wiest](#)
- [The Housemaid By Freida Mcfadden](#)
- [My First Learn-to-write Workbook: Practice For Kids With Pen Control, Line Tracing, Letters, And More! By Crystal Radke](#)
- [Kindergarten, Here I Come! By D.j. Steinberg](#)
- [A Court Of Mist And Fury \(a Court Of Thorns And Roses, 2\)](#)
- [Too Late: Definitive Edition](#)
- [Saved: A War Reporter's Mission To Make It Home By Benjamin Hall](#)
- [The Wager: A Tale Of Shipwreck, Mutiny And Murder](#)
- [The Summer Of Broken Rules](#)
- [Outlive: The Science And Art Of Longevity By Peter Attia Md](#)

Philip Korman is professor of mathematics at the University of Cincinnati. He is the author of over one hundred research articles in differential equations and the monograph Global Solution Curves for Semilinear Elliptic Equations. Korman has served on the editorial boards of Communications on Applied Nonlinear Analysis, Electronic Journal of Differential Equations, SIAM Review, and Differential Equations and Applications.

Calculus American Mathematical Soc.

Functional equations, which are a branch of algebraic problems used in mathematical competitions, appear in recent olympiads very frequently. The current book is the first volume in a series of books on collections of solved problems in functional equations. This volume contains 175 problems on the subject, including those used in latest mathematical olympiads (2017 - 2018) around the world. The basic concepts of functional equations and techniques of problem solving have been briefly discussed in the preamble of the book.

Solving Polynomial Equations Bureau

This book provides a general introduction to modern mathematical aspects in computing with multivariate polynomials and in solving algebraic systems. It presents the state of the art in several symbolic, numeric, and symbolic-numeric techniques, including effective and algorithmic methods in algebraic geometry and computational algebra, complexity issues, and applications ranging from statistics and geometric modelling to robotics and vision. Graduate students, as well as researchers in related areas, will find an excellent introduction to currently interesting topics. These cover Groebner and border bases, multivariate resultants, residues, primary decomposition, multivariate polynomial factorization, homotopy continuation, complexity issues, and their applications.

Between the Firmaments W H Freeman & Company

This book, based on Pólya's method of problem solving, aids students in their transition to higher-level mathematics. It begins by providing a great deal of guidance on how to approach definitions, examples, and theorems in mathematics and ends by providing projects for independent study. Students will follow Pólya's four step process: learn to understand the problem; devise a plan to solve the problem; carry out that plan; and look back and check what the results told them.

The Noun Phrase in the Languages of South America HarperCollins

Bridging a number of mathematical disciplines, and exposing many facets of systems of polynomial equations, Bernd Sturmfels's study covers a wide spectrum of mathematical techniques and algorithms, both symbolic and numerical.

Principles of Solid Mechanics John Wiley & Sons

According to a recent survey, the most popular question about science from the general public was: what came before the Big Bang? We all know on some level what the Big Bang is, but we don't know how it became the accepted theory, or how we might know what came before. In *Before the Big Bang*, Brian Clegg (the critically acclaimed author of *Upgrade Me* and *The God Effect*) explores the history of this remarkable concept. From the earliest creation myths, through Hershel's realization that the Milky Way was one of many galaxies, to on-going debates about Black Holes, this is an incredible look at the origins of the universe and the many theories that led to the acceptance of the Big Bang. But in classic scientist fashion Clegg challenges the notion of the "Big Bang" itself, and raises the deep philosophical question of why we might want to rethink the origin of the universe. This is popular science at its best, exploratory, controversial, and utterly engrossing.