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Echopraxia Random House

This book explores topics that are central to the field of spacecraft attitude determination and control. The authors provide rigorous theoretical derivations of significant algorithms accompanied by a generous amount of qualitative discussions of the subject matter. The book documents the development of the important concepts and methods in a manner accessible to practicing engineers, graduate-level engineering students and applied mathematicians. It includes detailed examples from actual mission designs to help ease the transition from theory to practice and also provides prototype algorithms that are readily available on the author's website. Subject matter includes both theoretical derivations and practical implementation of spacecraft attitude determination and control systems. It provides detailed derivations for attitude kinematics and

dynamics and provides detailed description of the most widely used attitude parameterization, the quaternion. This title also provides a thorough treatise of attitude dynamics including Jacobian elliptical functions. It is the first known book to provide detailed derivations and explanations of state attitude determination and gives readers real-world examples from actual working spacecraft missions. The subject matter is chosen to fill the void of existing textbooks and treatises, especially in state and dynamics attitude determination. MATLAB code of all examples will be provided through an external website.

Flash Boys: A Wall Street Revolt
Brooks/Cole Publishing Company
Introduces machine learning and its algorithmic paradigms, explaining the principles behind automated learning approaches and the considerations underlying their usage.

The Practice of Light
libreriauniversitaria.it Edizioni
Selected, peer reviewed papers from the 4th International Conference on Civil Engineering, Architecture and Building Materials (CEABM 2014), May 24-25, 2014, Haikou, China
Artificial intelligence and the

future of warfare MIT Press
Ten years from now, what do you want or expect your students to remember from your course? We realized that in ten years what matters will be how students approach a problem using the tools they carry with them—common sense and common knowledge—not the particular mathematics we chose for the curriculum. Using our text, students work regularly with real data in moderately complex everyday contexts, using mathematics as a tool and common sense as a guide. The focus is on problems suggested by the news of the day and topics that matter to students, like inflation, credit card debt, and loans. We use search engines, calculators, and spreadsheet programs as tools to reduce drudgery, explore patterns, and get information. Technology is an integral part of today's world—this text helps students use it thoughtfully and wisely. This second edition contains revised chapters and additional sections, updated examples and exercises, and complete rewrites of critical material based on feedback from students and teachers who have used this text. Our focus remains the same: to help students to think carefully—and critically—about numerical information in everyday contexts.

Precalculus Cambridge University Press

Table of contents

The Digital Incunabula: rock • paper • pixels

World Scientific

This fact-filled guide explores forests from the equator to the frozen poles, the depths of the rainforest to the mountain forests at high altitudes. It also demonstrates the many benefits that forests provide us with, discusses the negative impacts that humans unfortunately have on forests and explains how good management can help protect and conserve forests and forest biodiversity. At the end of the guide, inspiring examples of youth-led initiatives and an easy-to-follow action plan will help young people develop their own forest conservation activities and projects.

The Economics of Discrimination
libreriauniversitaria.it Edizioni

A follow-up to the Hugo Award-nominated *Blindsight* is set in a 22nd-century world transformed by scientific evangelicals, supernatural beings and ghosts, where defunct biologist Daniel Bruks becomes trapped on a spaceship destined to make an evolutionary-changing discovery.

Horton Hears a Who! American
Mathematical Soc.

Argues that post-crisis Wall Street continues to be controlled by large banks and explains how a small, diverse group of Wall Street men have banded together to reform the financial markets.

An Illustrated Book of Bad Arguments
Macmillan

The recent explosion in complex global networking architectures has spurred a concomitant rise in the need for robust information security. Further, as computing power increases exponentially with every passing year, so do the number of proposed cryptographic schemata for improving and ensuring the encryption integrity of cutting-edge infosec protocols. *Improving Information Security Practices through Computational Intelligence* presents an overview of the latest and greatest research in

the field, touching on such topics as cryptology, stream ciphers, and intrusion detection, and providing new insights to an audience of students, teachers, and entry-level researchers working in computational intelligence, information security, and security engineering.

Mathematics for Calculus Food & Agriculture Org. In the history of mankind, three revolutions which impact the human life are tool-making revolution, agricultural revolution and industrial revolution. They have transformed not only the economy and civilization but the overall development of the human society. Probably, intelligence revolution is the next revolution, which the society will perceive in the next 10 years. ICCD-2014 covers all dimensions of intelligent sciences, i.e. Intelligent Computing, Intelligent Communication and Intelligent Devices. This volume covers contributions from Intelligent Computing, areas such as Intelligent and Distributed Computing, Intelligent Grid & Cloud Computing, Internet of Things, Soft Computing and Engineering Applications, Data Mining and Knowledge discovery, Semantic and Web Technology, and Bio-Informatics. This volume also covers paper from Intelligent Device areas such as Embedded Systems, RFID, VLSI Design & Electronic Devices, Analog and Mixed-Signal IC Design and Testing, Solar Cells and Photonics, Nano Devices and Intelligent Robotics. Overcoming the Unseen Forces That Stand in the Way of True Inspiration Random House College Algebra provides a comprehensive exploration of algebraic principles and meets scope and sequence requirements for a typical introductory algebra course. The modular approach and richness of content ensure that the book meets the needs of a variety of courses. The text and images in this textbook are grayscale.

Proofs from THE BOOK Springer

As the open-source and free competitor to expensive software like Maple™, Mathematica®, Magma, and MATLAB®, Sage offers anyone with access to a web browser the ability to use cutting-edge mathematical software and display his or her results for others, often with stunning graphics. This book is a gentle

introduction to Sage for undergraduate students toward the end of Calculus II (single-variable integral calculus) or higher-level course work such as Multivariate Calculus, Differential Equations, Linear Algebra, or Math Modeling. The book assumes no background in computer science, but the reader who finishes the book will have learned about half of a first semester Computer Science I course, including large parts of the Python programming language. The audience of the book is not only math majors, but also physics, engineering, finance, statistics, chemistry, and computer science majors.

Poverty, Survival & Hope in an American City W. Norton & Company

The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

Introduction to Sports Biomechanics Taylor & Francis

“ This short book makes you smarter than 99% of the population. . . . The concepts within it will increase your company's ‘ organizational intelligence. ’ . . . It ’ s more than just a must-read, it ’ s a ‘ have-to-read-or-you ’ re-fired ’ book ” —Geoffrey James, INC.com From the author of the forthcoming An Illustrated Book of

Loaded Language, here 's the antidote to fuzzy thinking, with furry animals! Have you read (or stumbled into) one too many irrational online debates? Ali Almossawi certainly had, so he wrote *An Illustrated Book of Bad Arguments!* This handy guide is here to bring the internet age a much-needed dose of old-school logic (really old-school, a la Aristotle). Here are cogent explanations of the straw man fallacy, the slippery slope argument, the ad hominem attack, and other common attempts at reasoning that actually fall short—plus a beautifully drawn menagerie of animals who (adorably) commit every logical faux pas. Rabbit thinks a strange light in the sky must be a UFO because no one can prove otherwise (the appeal to ignorance). And Lion doesn 't believe that gas emissions harm the planet because, if that were true, he wouldn 't like the result (the argument from consequences). Once you learn to recognize these abuses of reason, they start to crop up everywhere from congressional debate to YouTube comments—which makes this geek-chic book a must for anyone in the habit of holding opinions.

Solve for Happy Trans Tech Publications Ltd
This book provides students of mathematics with the minimum amount of knowledge in logic and set theory needed for a profitable continuation of their studies. There is a chapter on statement calculus, followed by eight chapters on set theory.

Computational Vision and Medical Image Processing IV The Experiment

In this “ powerful personal story woven with a rich analysis of what we all seek ” (Sergey Brin, cofounder of Google), Mo Gawdat, Chief Business Officer at Google 's [X], applies his superior logic and problem solving skills to understand how the brain processes joy and sadness—and then he solves for happy. In 2001 Mo Gawdat realized that despite his incredible success, he was desperately unhappy. A lifelong learner, he attacked the problem as an engineer would:

examining all the provable facts and scrupulously applying logic. Eventually, his countless hours of research and science proved successful, and he discovered the equation for permanent happiness. Thirteen years later, Mo 's algorithm would be put to the ultimate test. After the sudden death of his son, Ali, Mo and his family turned to his equation—and it saved them from despair. In dealing with the horrible loss, Mo found his mission: he would pull off the type of “ moonshot ” goal that he and his colleagues were always aiming for—he would share his equation with the world and help as many people as possible become happier. In *Solve for Happy* Mo questions some of the most fundamental aspects of our existence, shares the underlying reasons for suffering, and plots out a step-by-step process for achieving lifelong happiness and enduring contentment. He shows us how to view life through a clear lens, teaching us how to dispel the illusions that cloud our thinking; overcome the brain 's blind spots; and embrace five ultimate truths. No matter what obstacles we face, what burdens we bear, what trials we 've experienced, we can all be content with our present situation and optimistic about the future.

1001 Math Problems John Wiley & Sons
Computational Vision and Medical Image Processing. VIPIIMAGE 2013 contains invited lectures and full papers presented at VIPIIMAGE 2013 - IV ECCOMAS Thematic Conference on Computational Vision and Medical Image Processing (Funchal, Madeira Island, Portugal, 14-16 October 2013). International contributions from 16 countries provide a comprehensive coverage of the current state-of-the-art in the fields of: 3D Vision; Computational Bioimaging and Visualization; Computational Vision and Image Processing applied to Dental Medicine; Computational Vision; Computer Aided

Diagnosis, Surgery, Therapy, and Treatment; Data Interpolation, Registration, Acquisition and Compression; Image Processing and Analysis; Image Segmentation; Imaging of Biological Flows; Medical Imaging; Physics of Medical Imaging; Shape Reconstruction; Signal Processing; Simulation and Modeling; Software Development for Image Processing and Analysis; Telemedicine Systems and their Applications; Trabecular Bone Characterization; Tracking and Analysis of Movement; Virtual Reality. Related techniques covered in this book include the level set method, finite element method, modal analyses, stochastic methods, principal and independent components analysis and distribution models. Computational Vision and Medical Image Processing. VIPIIMAGE 2013 is useful to academics, researchers and professionals in Biomechanics, Biomedical Engineering, Computational Vision (image processing and analysis), Computer Sciences, Computational Mechanics and Medicine.

Elementary Set Theory, Part I Cambridge University Press

Image Modeling compiles papers presented at a workshop on image modeling in Rosemont, Illinois on August 6-7, 1979. This book discusses the mosaic models for textures, image segmentation as an estimation problem, and comparative analysis of line-drawing modeling schemes. The statistical models for the image restoration problem, use of Markov random fields as models of texture, and mathematical models of graphics are also elaborated. This text likewise covers the univariate and multivariate random field models for images, stochastic image models generated by random tessellations of the plane, and long crested wave models. Other topics include the Boolean model and random sets, structural basis for image description, and structure in co-occurrence matrices for texture analysis. This publication is useful to specialists and professionals working in the field of image processing.

Hong Kong University Press

This book constitutes the refereed proceedings of the 15th International Conference on Cryptology and Network Security, CANS 2016, held in Milan, Italy, in November 2016. The 30 full papers presented together with 18 short papers and 8 poster papers were carefully reviewed and selected from 116 submissions. The papers are organized in the following topical sections: cryptanalysis of symmetric key; side channel attacks and implementation; lattice-based cryptography, virtual private network; signatures and hash; multi party computation; symmetric cryptography and authentication; system security, functional and homomorphic encryption; information theoretic security; malware and attacks; multi party computation and functional encryption; and network security, privacy, and authentication.

Information Theory, Inference and Learning Algorithms John Wiley & Sons

Introduction to Sports Biomechanics has been developed to introduce you to the core topics covered in the first two years of your degree. It will give you a sound grounding in both the theoretical and practical aspects of the subject. Part One covers the anatomical and mechanical foundations of biomechanics and Part Two concentrates on the measuring techniques which sports biomechanists use to study the movements of the sports performer. In addition, the book is highly illustrated with line drawings and photographs which help to reinforce explanations and examples.