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TREVON FARMER

Science and Technology in Medieval India Springer Science & Business Media

Useful Concepts and Results at the Heart of Linear AlgebraA one- or two-semester course for a wide variety of students at the sophomore/junior undergraduate levelA Modern Introduction to Linear Algebra provides a rigorous yet accessible matrix-oriented introduction to the essential concepts of linear algebra. Concrete, easy-to-understand examples m

Fluent Python Cambridge University Press

The book 'Esoteric Islam' discusses the mystical teachings of Quran from the standpoint of ancient mysteries and modern metaphysics. The Quran is considered as the book of divine guidance by Muslims whose main subject constitutes 'man'. From a hermetic standpoint, the Quranic mysteries carry a great deal of connection to the hermetic arts of astrology and alchemy. Here, I have attempted to explain the manner in which symbolism of the hermetic precepts can be used to understand the Quran in its structural designs alongside the principle tenets, so as to define the notions of highest aspirations in men, and to unravel the mystique of this very impressive literature.

Clear, Concise, and Effective Programming CRC Press
First Published in 1986. Routledge is an imprint of Taylor & Francis, an informa company.

Mathematical Reviews Springer Science & Business Media

The book presents a collection of MATLAB-based chapters of various engineering background. Instead of giving exhausting amount of technical details, authors were rather advised to explain relations of their problems to actual MATLAB concepts. So, whenever possible, download links to functioning MATLAB codes were added and a potential reader can do own testing. Authors are typically scientists with interests in modeling in MATLAB. Chapters include image and signal processing, mechanics and dynamics, models and data identification in biology, fuzzy logic, discrete event systems and data acquisition systems.

Mathematical Assn of Amer

Focus on socio-techno, medicine, and textiles interaction.

Exploiting Hidden Structure in Matrix Computations: Algorithms and Applications WIT Press

Python's simplicity lets you become productive quickly, but this often means you aren't using everything it has to offer. With this hands-on guide, you'll learn how to write effective, idiomatic Python code by leveraging its best—and possibly most neglected—features. Author Luciano Ramalho takes you through Python's core language features and libraries, and shows you how to make your code shorter, faster, and more readable at the same time. Many experienced programmers try to bend Python to fit patterns they learned from other languages, and never discover Python features outside of their experience. With this book, those Python programmers will thoroughly learn how to become proficient in Python 3. This book covers: Python data model: understand how special methods are the key to the consistent behavior of objects Data structures: take full advantage of built-in types, and understand the text vs bytes duality in the Unicode age Functions as objects: view Python functions as first-class objects, and understand how this affects popular design patterns Object-oriented idioms: build classes by learning about references, mutability, interfaces, operator overloading, and multiple inheritance Control flow: leverage context managers, generators, coroutines, and concurrency with the concurrent.futures and asyncio packages Metaprogramming: understand how properties, attribute descriptors, class decorators, and metaclasses work

The Dacca University Studies Pearson Higher Ed

Drawing on a large body of empirical evidence, former Harvard President Derek Bok examines how much progress college students actually make toward widely accepted goals of undergraduate education. His conclusions are sobering. Although most students make gains in many important respects, they improve much less than they should in such important areas as writing, critical thinking, quantitative skills, and moral reasoning. Large majorities of college seniors do not feel that they have made substantial progress in speaking a foreign language, acquiring cultural and aesthetic interests, or learning what they need to know to become active and informed citizens. Overall, despite their vastly increased resources, more powerful technology, and hundreds of new courses, colleges cannot be confident that students are learning more than they did fifty years ago. Looking further, Bok finds that many important college courses are left to the least experienced teachers and that most

professors continue to teach in ways that have proven to be less effective than other available methods. In reviewing their educational programs, however, faculties typically ignore this evidence. Instead, they spend most of their time discussing what courses to require, although the lasting impact of college will almost certainly depend much more on how the courses are taught. In his final chapter, Bok describes the changes that faculties and academic leaders can make to help students accomplish more. Without ignoring the contributions that America's colleges have made, Bok delivers a powerful critique—one that educators will ignore at their peril.

High-Performance Modelling and Simulation for Big Data Applications CRC Press

This volume brings together some of today's leading scholars from a range of different disciplines to explore the development of Indian scientific, technological and cultural thinking between the 10th and 18th centuries. The diverse topics include: food, agriculture, mathematics, astronomy, Bhakti and Sufi movements, and the spread of translation from Persian and Arabic thinkers throughout the country.

Cross-Cultural Exchange in Pre-Modern Asia Routledge

This lively and engaging book explains the things you have to know in order to read empirical papers in the social and health sciences, as well as the techniques you need to build statistical models of your own. The discussion in the book is organized around published studies, as are many of the exercises. Relevant journal articles are reprinted at the back of the book. Freedman makes a thorough appraisal of the statistical methods in these papers and in a variety of other examples. He illustrates the principles of modelling, and the pitfalls. The discussion shows you how to think about the critical issues - including the connection (or lack of it) between the statistical models and the real phenomena. The book is written for advanced undergraduates and beginning graduate students in statistics, as well as students and professionals in the social and health sciences.

Introductory Mathematics and Statistics for Islamic Finance The Saylor Foundation

An important objective of the study of mathematics is to analyze and visualize phenomena of nature and real world problems for its proper understanding. Gradually, it is also becoming the language of modern financial instruments. To project some of these developments, the conference was planned under the joint auspices of the Indian Society of Industrial and Applied Mathematics (ISIAM) and Guru Nanak Dev University (G. N. D. U.), Amritsar, India. Dr. Pammy Manchanda, chairperson of Mathematics Department, G. N. D. U. , was appointed the organizing secretary and an organizing committee was constituted. The Conference was scheduled in World Mathematics Year 2000 but, due one reason or the other, it could be held during 22. -25. January 2001. However, keeping in view the suggestion of the International Mathematics union, we organized two symposia, Role of Mathematics in industrial development and vice-versa and How image of Mathematics can be improved in public. These two symposia aroused great interest among the participants and almost everyone participated in the deliberations. The discussion in these two themes could be summarized in the lengthy following lines: "Tradition of working in isolation is a barrier for interaction with the workers in the other fields of science and engineering, what to talk of non-academic areas, specially the private sector of finance and industry. Therefore, it is essential to build bridges within institutions and between institutions.

Medieval Islamic Civilization Princeton University Press

This stimulating textbook presents a broad and accessible guide to the fundamentals of discrete mathematics, highlighting how the techniques may be applied to various exciting areas in computing. The text is designed to motivate and inspire the reader, encouraging further study in this important skill. Features: provides an introduction to the building blocks of discrete mathematics, including sets, relations and functions; describes the basics of number theory, the techniques of induction and recursion, and the applications of mathematical sequences, series, permutations, and combinations; presents the essentials of algebra; explains the fundamentals of automata theory, matrices, graph theory, cryptography, coding theory, language theory, and the concepts of computability and decidability; reviews the history of logic, discussing propositional and predicate logic, as well as advanced topics; examines the field of software engineering, describing formal methods; investigates probability and statistics.

Esoteric Islam: A Hermetic Perspective on Islamic Traditions Pearson Education India

Includes entries for maps and atlases.

Our Cultural Heritage "O'Reilly Media, Inc."

Medieval Islamic Civilization examines the socio-cultural history of the regions where Islam took hold between the seventh and sixteenth century. This important two-volume work contains over 700 alphabetically arranged entries, contributed and signed by international scholars and experts in fields such as Arabic languages, Arabic literature, architecture, art history, history, history of science, Islamic arts, Islamic studies, Middle Eastern studies, Near Eastern studies, politics, religion, Semitic studies, theology, and more. This reference provides an exhaustive and vivid portrait of Islamic civilization including the many scientific, artistic, and religious developments as well as all aspects of daily life and culture. For a full list of entries, contributors, and more, visit www.routledge-ny.com/middleages/Islamic.

The American Mathematical Monthly Springer

Designed for advanced undergraduate and beginning graduate students in linear or abstract algebra, *Advanced Linear Algebra* covers theoretical aspects of the subject, along with examples, computations, and proofs. It explores a variety of advanced topics in linear algebra that highlight the rich interconnections of the subject to geometry, algebra, analysis, combinatorics, numerical computation, and many other areas of mathematics. The book's 20 chapters are grouped into six main areas: algebraic structures, matrices, structured matrices, geometric aspects of linear algebra, modules, and multilinear algebra. The level of abstraction gradually increases as students proceed through the text, moving from matrices to vector spaces to modules. Each chapter consists of a mathematical vignette devoted to the development of one specific topic. Some chapters look at introductory material from a sophisticated or abstract viewpoint while others provide elementary expositions of more theoretical concepts. Several chapters offer unusual perspectives or novel treatments of standard results. Unlike similar advanced mathematical texts, this one minimizes the dependence of each chapter on material found in previous chapters so that students may immediately turn to the relevant chapter without first wading through pages of earlier material to access the necessary algebraic background and theorems. Chapter summaries contain a structured list of the principal definitions and results. End-of-chapter exercises aid students in digesting the material. Students are encouraged to use a computer algebra system to help solve computationally intensive exercises.

History of Indian Science, Technology, and Culture, A.D.

1000-1800 John Wiley & Sons

Focusing on special matrices and matrices which are in some sense 'near' to structured matrices, this volume covers a broad range of topics of current interest in numerical linear algebra. Exploitation of these less obvious structural properties can be of great importance in the design of efficient numerical methods, for example algorithms for matrices with low-rank block structure, matrices with decay, and structured tensor computations. Applications range from quantum chemistry to queuing theory. Structured matrices arise frequently in applications. Examples include banded and sparse matrices, Toeplitz-type matrices, and matrices with semi-separable or quasi-separable structure, as well as Hamiltonian and symplectic matrices. The associated literature is enormous, and many efficient algorithms have been developed for solving problems involving such matrices. The text arose from a C.I.M.E. course held in Cetraro (Italy) in June 2015 which aimed to present this fast growing field to young researchers, exploiting the expertise of five leading lecturers with different theoretical and application perspectives.

An Accessible Introduction to the History, Theory, Logic and Applications Routledge

This book documents the relationship and wisdom of Asian cartographers in the Islamic and Chinese worlds before the Europeans arrived.

LabVIEW for Engineers Oxford University Press, USA

This book gathers outstanding research papers presented at the International Joint Conference on Advances in Computational Intelligence (IJCACI 2020), organized by Daffodil International University (DIU) and Jahangirnagar University (JU) in Bangladesh and South Asian University (SAU) in India. These proceedings present novel contributions in the areas of computational intelligence and offer valuable reference material for advanced research. The topics covered include collective intelligence, soft computing, optimization, cloud computing, machine learning, intelligent software, robotics, data science, data security, big data analytics, and signal and natural language processing. **Theory and Practice** World Scientific Publishing Company
Year on year, there continue to be dramatic changes in endoscopic ultrasonography (EUS) since it was first introduced 30 years ago. Advances in technology have meant that as well as

being used in the diagnosis of gastrointestinal disorders, EUS is now one of the primary diagnostic and therapeutic modalities used in GI endoscopy. Back and improved for a new edition, Endoscopic Ultrasonography is the market-leading book covering the topic. Written by leading experts in the field, it provides a technical how-to approach to learning this advanced endoscopic procedure. The highly-acclaimed authors provide step-by-step guidance to the fundamentals of EUS, giving clear instructions on the instruments involved, the correct sedation procedures to follow and how EUS should be performed safely and effectively. Every chapter discusses a specific aspect of EUS as it relates to a particular gastrointestinal disorder or organ system. Brand new to this edition are: 1) Seven new chapters on the hottest topics in EUS: Learning Anatomy for EUS; Elastography; Lung Cancer;

Autoimmune Pancreatitis; EUS for Liver Disease; Biliary Access; Pancreatic Fluid Collection Drainage 2) A complete update of all previous chapters to reflect the most current clinical recommendations 3) A host of new color images in every chapter Endoscopic Ultrasonography 3rd edition is the ideal tool to consult to improve EUS skills and improve patient management, and an essential purchase for all gastroenterologists and endoscopists. [Cetraro, Italy 2015](#) Sachal Smith
This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Based on the most current release of LabVIEW, LabVIEW for Engineers is designed for readers with little to no experience using LabVIEW. Part of Prentice Hall's ESource Program: ESource enables instructors to

choose individual chapters from published books in the Prentice Hall ESource Series. The content available in this online book-building system covers topics in engineering problem-solving and design, graphics, and computer applications. Using this program, instructors can create a unique text for the introduction to engineering course that exactly matches their content requirements and teaching approach. www.prenhall.com/esource. [Linear Algebra as an Introduction to Abstract Mathematics](#) Springer Nature
Designed to meet the requirements of UG students, the book deals with the theoretical as well as the practical aspects of the subject. Equal emphasis has been given to both 2D as well as 3D geometry. The book follows a systematic approach with adequate examples for better understanding of the concepts.