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Iterative Methods for Solving Nonlinear Equations and Systems Springer Science & Business Media

Provides the state-of-the-art of the physics of granular media for graduate students and researchers in physics, applied mathematics and engineering.

Physics Briefs MDPI

Covers the most important imaging modalities in radiology: projection radiography, x-ray computed tomography, nuclear medicine, ultrasound imaging, and magnetic resonance imaging. Organized into parts to emphasize key overall conceptual divisions.

Encyclopedia of Information Science and Technology Morgan & Claypool Publishers

**** Produced in collaboration with the American Council on Education. Previous editions are cited in BCL3 and Guide to Reference Books. Arranged by state, some 1,900 institutions are covered, including 58 for the first time. Material comes directly from the institutions themselves in response to a questionnaire. Entries provide both the essential statistical data (tuition, room, board, admissions requirements, financial aid, enrollments) and other information important to decision making (e.g. student life, library holdings, physical plant, study abroad programs). Enhancing the institution profiles are sections on foreign students at US institutions, professional education, and the history of higher education in the US, among other topics. Annotation copyrighted by Book News, Inc., Portland, OR

Introduction to Intra-Operative and Surgical Radiography Cambridge University Press

This book combines a comprehensive state-of-the-art analysis of bifurcations of

discrete-time dynamical systems with concrete instruction on implementations (and example applications) in the free MATLAB ® software MatContM developed by the authors. While self-contained and suitable for independent study, the book is also written with users in mind and is an invaluable reference for practitioners. Part I focuses on theory, providing a systematic presentation of bifurcations of fixed points and cycles of finite-dimensional maps, up to and including cases with two control parameters. Several complementary methods, including Lyapunov exponents, invariant manifolds and homoclinic structures, and parts of chaos theory, are presented. Part II introduces MatContM through step-by-step tutorials on how to use the general numerical methods described in Part I for simple dynamical models defined by one- and two-dimensional maps. Further examples in Part III show how MatContM can be used to analyze more complicated models from modern engineering, ecology, and economics.

Medical Imaging Signals and Systems Springer Science & Business Media

Solving nonlinear equations in Banach spaces (real or complex nonlinear equations, nonlinear systems, and nonlinear matrix equations, among others), is a non-trivial task that involves many areas of science and technology. Usually the solution is not directly affordable and require an approach using iterative algorithms. This Special Issue focuses mainly on the design, analysis of convergence, and stability of new schemes for solving nonlinear problems and their application to practical problems. Included papers study the following topics: Methods for finding simple or multiple roots either with or without derivatives, iterative methods for approximating different generalized inverses, real or complex dynamics associated to the rational functions resulting from the application of an iterative method on a polynomial. Additionally, the analysis of the convergence has been carried out by means of different sufficient conditions assuring the local, semilocal, or global convergence. This Special issue has allowed us to present the latest research results in the area of iterative processes for solving nonlinear equations as well as systems and matrix equations. In addition to the theoretical papers, several manuscripts on signal processing, nonlinear integral equations, or partial differential equations, reveal the connection between iterative methods and other branches of science and engineering.

American Universities and Colleges Prentice Hall

Master the essential skills needed to recognize and solve complex problems with machine learning and deep learning. Using real-world examples that leverage the popular Python machine learning ecosystem, this book is your perfect companion for learning the art and science of machine learning to become a successful practitioner. The concepts, techniques, tools, frameworks, and methodologies used in this book will teach you how to think, design, build, and execute machine learning systems and projects successfully. Practical Machine Learning with Python follows a structured and comprehensive three-tiered approach packed with hands-on examples and code. Part 1 focuses on understanding machine learning concepts and tools. This includes machine learning basics with a broad overview of algorithms, techniques, concepts and applications, followed by a tour of the entire Python machine learning ecosystem. Brief guides for useful machine learning tools, libraries and frameworks are also covered. Part 2 details standard machine learning pipelines, with an emphasis on data processing analysis, feature engineering, and modeling. You will learn how to process, wrangle, summarize and

visualize data in its various forms. Feature engineering and selection methodologies will be covered in detail with real-world datasets followed by model building, tuning, interpretation and deployment. Part 3 explores multiple real-world case studies spanning diverse domains and industries like retail, transportation, movies, music, marketing, computer vision and finance. For each case study, you will learn the application of various machine learning techniques and methods. The hands-on examples will help you become familiar with state-of-the-art machine learning tools and techniques and understand what algorithms are best suited for any problem. Practical Machine Learning with Python will empower you to start solving your own problems with machine learning today! What You'll Learn Execute end-to-end machine learning projects and systems Implement hands-on examples with industry standard, open source, robust machine learning tools and frameworks Review case studies depicting applications of machine learning and deep learning on diverse domains and industries Apply a wide range of machine learning models including regression, classification, and clustering. Understand and apply the latest models and methodologies from deep learning including CNNs, RNNs, LSTMs and transfer learning. Who This Book Is For IT professionals, analysts, developers, data scientists, engineers, graduate students

Soft Computing for Problem Solving John Wiley & Sons

The author's Quantum Healing: Exploring the Frontiers of Mind/Body Medicine, aimed to show how health and sickness are controlled by awareness at the level of quantum physics, where mind and body are one. Now Dr Chopra has written a practical guide to harnessing that healing power of the mind, a book based on the principles of Ayureda, a 5000-year-old system of mind/body medicine that has recently been rediscovered. The book provides a step-by-step programme of mind/body medicine tailored to the individual's need. The result is a plan for re-establishing the body's essential balance with nature.

MDCT Physics: The Basics PHI Learning Pvt. Ltd.

Physics in Nuclear Medicine - by Drs. Simon R. Cherry, James A. Sorenson, and Michael E. Phelps - provides current, comprehensive guidance on the physics underlying modern nuclear medicine and imaging using radioactively labeled tracers. This revised and updated fourth edition features a new full-color layout, as well as the latest information on instrumentation and technology. Stay current on crucial developments in hybrid imaging (PET/CT and SPECT/CT), and small animal imaging, and benefit from the new section on tracer kinetic modeling in neuroreceptor imaging. What's more, you can reinforce your understanding with graphical animations online at www.expertconsult.com, along with the fully searchable text and calculation tools. Master the physics of nuclear medicine with thorough explanations of analytic equations and illustrative graphs to make them accessible. Discover the technologies used in state-of-the-art nuclear medicine imaging systems Fully grasp the process of emission computed tomography with advanced mathematical concepts presented in the appendices. Utilize the extensive data in the day-to-day practice of nuclear medicine practice and research. Tap into the expertise of Dr. Simon Cherry, who contributes his cutting-edge knowledge in nuclear medicine instrumentation. Stay current on the latest developments in nuclear medicine technology and methods New sections to learn about hybrid imaging (PET/CT and SPECT/CT) and small animal imaging. View graphical animations online at www.expertconsult.com, where you can also access the fully searchable text and calculation tools. Get a better view of images and line art and find information more easily thanks to a brand-new, full-color layout. The perfect reference or textbook to comprehensively review physics principles in nuclear

medicine.

Numerical computing with IEEE floating point arithmetic Elsevier Health Sciences

This volume constitutes the refereed proceedings of the 5th Multi-disciplinary International Workshop On Artificial Intelligence, MIWAI 2011, held in Hyderabad, India, in December 2011. The 38 revised full papers presented were carefully reviewed and selected from 71 submissions. The papers cover the multifarious nature of the Artificial Intelligence research domain, ranging from theoretical to real world applications and address topics such as agent-based simulation, agent-oriented software engineering, agents and Web services, agent-based electronic commerce, auctions and markets, AI in video games, computer vision, constraint satisfaction, data mining, decision theory, distributed AI, e-commerce and AI, game theory, internet/www intelligence, industrial applications of AI, intelligent tutoring, knowledge representation and reasoning, machine learning, multi-agent planning and learning, multi-agent systems and their applications, multi-agent systems and evolving intelligence, natural language processing, neural networks, planning and scheduling, robotics, uncertainty in AI, and Web services.

Granular Media Bantam Books

Describes the basic attributes of reptiles and amphibians and provides examples of various species.

Nuclear Medicine Physics Oxford University Press

This book provides a comprehensive and accessible introduction to knowledge graphs, which have recently garnered notable attention from both industry and academia. Knowledge graphs are founded on the principle of applying a graph-based abstraction to data, and are now broadly deployed in scenarios that require integrating and extracting value from multiple, diverse sources of data at large scale. The book defines knowledge graphs and provides a high-level overview of how they are used. It presents and contrasts popular graph models that are commonly used to represent data as graphs, and the languages by which they can be queried before describing how the resulting data graph can be enhanced with notions of schema, identity, and context. The book discusses how ontologies and rules can be used to encode knowledge as well as how inductive techniques—based on statistics, graph analytics, machine learning, etc.—can be used to encode and extract knowledge. It covers techniques for the creation, enrichment, assessment, and refinement of knowledge graphs and surveys recent open and enterprise knowledge graphs and the industries or applications within which they have been most widely adopted. The book closes by discussing the current limitations and future directions along which knowledge graphs are likely to evolve. This book is aimed at students, researchers, and practitioners who wish to learn more about knowledge graphs and how they facilitate extracting value from diverse data at large scale. To make the book accessible for newcomers, running examples and graphical notation are used throughout. Formal definitions and extensive references are also provided for those who opt to delve more deeply into specific topics.

American Universities and Colleges Walter de Gruyter GmbH & Co KG

This edition provides an important contemporary view of a wide

range of analog/digital circuit blocks, the BSIM model, data converter architectures, and more. The authors develop design techniques for both long- and short-channel CMOS technologies and then compare the two.

Fundamentals of Rocket Propulsion Arihant Publications India limited

A careful review of the literature covering various aspects of applications of lasers in science and technology reveals that lasers are being applied very widely throughout the entire gamut of physical medicine. After surveying the current developments taking place in the field of medical applications of lasers, it was considered appropriate to bring together these efforts of international research scientists and experts into one volume. It is with this aim that the editors have prepared this volume which brings current research and recent developments to the attention of a wide spectrum of readership associated with hospitals, medical institutions and universities world wide, including also the medical instrument industry. Both teachers and students in the medical faculties will especially find this compendium quite useful. This book is comprised of eleven chapters. All of the important medical applications of lasers are featured. The editors have made every effort that individual chapters are self-contained and written by experts. Emphasis has been placed on straight and simple presentation of the subject matter so that even the new entrants into the field will find the book of value.

Master Mind Pencil Puzzles Lippincott Williams & Wilkins

Organized nanoassemblies of inorganic nanoparticles and organic molecules are building blocks of nanodevices, whether they are designed to perform molecular level computing, sense the environment or improve the catalytic properties of a material. The key to creation of these hybrid nanostructures lies in understanding the chemistry at a fundamental level. This book serves as a reference book for researchers by providing fundamental understanding of many nanoscopic materials.

Treatise on Thermodynamics Rosen Classroom

The book follows a unified approach to present the basic principles of rocket propulsion in concise and lucid form. This textbook comprises of ten chapters ranging from brief introduction and elements of rocket propulsion, aerothermodynamics to solid, liquid and hybrid propellant rocket engines with chapter on electrical propulsion. Worked out examples are also provided at the end of chapter for understanding uncertainty analysis. This book is designed and developed as an introductory text on the fundamental aspects of rocket propulsion for both undergraduate and graduate students. It is also aimed towards practicing engineers in the field of space engineering. This comprehensive guide also provides adequate problems for audience to understand intricate aspects of rocket propulsion enabling them to design and develop rocket engines for peaceful purposes.

Physics in Nuclear Medicine SIAM

What is the relationship between common-sense, or 'folk', psychology and contemporary scientific psychology? Are they in conflict with one another? Or do they perform quite different, though perhaps complementary, roles? George Botterill and Peter Carruthers discuss these questions, defending a robust form of realism about the commitments of folk psychology and about the prospects for integrating those commitments into natural science. Their focus throughout the book is on the ways in which cognitive science presents a challenge to our common-sense self-image - arguing that our native conception of the mind will be enriched, but not overturned, by science. The Philosophy of Psychology is designed as a textbook for upper-level undergraduate and beginning graduate students in philosophy and cognitive science, but as a text that not only surveys but advances the debates on the topics discussed, it will also be of interest to researchers working in these areas.

QUANTUM MECHANICS Springer Nature

This is a book of entertaining problems that can be solved through the use of algebra, problems with intriguing plots to excite the readers curiosity, amusing excursions into the history of mathematics, unexpected uses that algebra is put to in everyday affairs, and more. Algebra Can Be Fun has brought hundreds of thousands of youngsters into the fold of mathematics

and its wonders. It is written in the form of lively sketches that discuss the multifarious (and exciting!) applications of algebra to the world about us. Here we encounter equations, logarithms, roots, progressions, the ancient and famous Diophantine analysis and much more. The examples are pictorial, vivid, often witty and bring out the essence of the matter at hand. There are numerous excursions into history and the history of algebra too. No one who has read this book will ever regard mathematics again in a dull light" Reviewers regard it as one of the finest examples of popular science writing.

CMOS Springer Science & Business Media

Comprehensive, yet concise, 3D Printing for the Radiologist presents an overview of three-dimensional printing at the point of care. Focusing on opportunities and challenges in radiology practice, this up-to-date reference covers computer-aided design principles, quality assurance, training, and guidance for integrating 3D printing across radiology subspecialties. Practicing and trainee radiologists, surgeons, researchers, and imaging specialists will find this an indispensable resource for furthering their understanding of the current state and future outlooks for 3D printing in clinical medicine. Covers a wide range of topics, including basic principles of 3D printing, quality assurance, regulatory perspectives, and practical implementation in medical training and practice. Addresses the challenges associated with 3D printing integration in clinical settings, such as reimbursement, regulatory issues, and training. Features concise chapters from a team of multidisciplinary chapter authors, including practicing radiologists, researchers, and engineers. Consolidates today ' s available information on this timely topic into a single, convenient, resource.

Master Mind Brain Teasers Cambridge University Press

Written by the chief physicist at Johns Hopkins University Hospital, this easy-to-read short textbook explains the physics behind multi-detector CT technology, particularly newer, more complex technology. The focus is on principles of physics, effects of scan parameters on image quality, and optimum radiation dosage. The book includes numerous key points summaries and questions to assist in exam preparation.

Rajasthan State Gazetteer: Administration and public welfare College Physics

This title provides an easily accessible yet detailed discussion of IEEE Std 754-1985, arguably the most important standard in the computer industry. The result of an unprecedented cooperation between academic computer scientists and the cutting edge of industry, it is supported by virtually every modern computer. Other topics include the floating point architecture of the Intel microprocessors and a discussion of programming language support for the standard.