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Physics in Molecular Biology

Cambridge University Press This book, first published in 2005, is a discussion for advanced physics students of how to use physics to model biological systems.

Handbook of Simulation

Principles, Methodology, Advances, Applications, and Practice

John Wiley & Sons The only complete guide to all aspects and uses of simulation-from the international leaders in the field There has never been a single definitive source of key information on all facets of discrete-event simulation and its applications to major industries. The Handbook of Simulation brings together the contributions of leading academics, practitioners, and software developers to offer authoritative coverage of the principles, techniques, and uses of discrete-event simulation. Comprehensive in scope and thorough in approach, the Handbook is the one reference on discrete-event simulation that every industrial engineer, management scientist, computer scientist, operations manager, or operations researcher involved in problem-solving should own, with an in-depth examination of: * Simulation methodology, from experimental design to data analysis and more * Recent advances, such as object-oriented simulation, on-line simulation, and parallel and distributed simulation * Applications across a full range of manufacturing and service industries * Guidelines for successful simulations and sound simulation project management * Simulation software and simulation industry vendors

MILSTRIP, MILSTRAP desk guide

The Puukko

Finnish Knives from Antiquity to Today

Schiffer Publishing For a Finn, the puukko is the most important tool and at the same time the most feared weapon. You could almost say the puukko has the same importance for a Finn as the samurai sword has for the Japanese. It is a 2,000-year-old mystical weapon that has been used for centuries with the same conviction and dexterity during times of peace and war. This comprehensive resource on the Finnish puukko is the only one available and covers the history and the various types by using extensive photos of examples. Anssi Ruusuvuori has reprocessed the history of this remarkable knife type in a form unique up to now. He deals with technical and design aspects of the puukko and guides the reader through the history of this legendary tool and weapon from the Viking era up to the present. He reports about the great master smiths of industrialization in the late 19th century and about rediscovering the puukko in the recent past. This book's initial focus is on the puukko's technology and history. In the second section, the author introduces the different puukko types according to their materials and construction. Thereafter are presented the multiple regional types and special puukkos, which are essential to know about as a collector and knife enthusiast. This book provides a comprehensive overview with respect to the topic "puukko" and transfers a rich treasure of knowledge. During its long history, the puukko was used for a great diversity of tasks, such as the production of ladles and other household tools; the carving of ornaments; scratching ice off cart wheels; cutting food; gutting and skinning of game, fish, or livestock; climbing out of an ice hole back to firm ground; and magic rituals (to protect children from evil spirits, to pray for a good harvest, and so on). It was used for self-defense and for duels. The main source of material for this book is the puukko collections of Finnish museums and private collectors. The greater part of researched knives is from the National Museum of Finland. Additional material was gathered from the Kauhava Puukko Museum, the Peura Museum, the Turku Regional Museum, the Aboa Vetus et Ars Nova Museum, the Ostrobothnian Museum, the Museum of Crime, and various private collections.

Kant's Transcendental Psychology

Oxford University Press on Demand For the last 100 years historians have denigrated the psychology of the Critique of Pure Reason. In opposition, Patricia Kitcher argues that we can only understand the deduction of the categories in terms of Kant's attempt to fathom the psychological prerequisites of thought, and that this investigation illuminates thinking itself. Kant tried to understand the "task environment" of knowledge and thought: Given the data we acquire and the scientific generalizations we make, what basic cognitive capacities are necessary to perform these feats? What do these capacities imply about the inevitable structure of our knowledge? Kitcher specifically considers Kant's claims about the unity of the thinking self; the spatial forms of human perceptions; the relations among mental states necessary for them to have content; the relations between perceptions and judgment; the malleability essential to empirical concepts; the structure of empirical concepts required for inductive inference; and the limits of philosophical insight into psychological processes.

Proceedings of the 21st EANN (Engineering Applications of Neural Networks) 2020 Conference

Proceedings of the EANN 2020

Springer Nature This book gathers the proceedings of the 21st Engineering Applications of Neural Networks Conference, which is supported by the International Neural Networks Society (INNS). Artificial Intelligence (AI) has been following a unique course, characterized by alternating growth spurts and "AI winters." Today, AI is an essential component of the fourth industrial revolution and enjoying its heyday. Further, in specific areas, AI is catching up with or even outperforming human beings. This book offers a comprehensive guide to AI in a variety of areas, concentrating on new or hybrid AI algorithmic approaches with robust applications in diverse sectors. One of the advantages of this book is that it includes robust algorithmic approaches and applications in a broad spectrum of scientific fields, namely the use of convolutional neural networks (CNNs), deep learning and LSTM in robotics/machine vision/engineering/image processing/medical systems/the environment; machine learning and meta learning applied to neurobiological modeling/optimization; state-of-the-art hybrid systems; and the algorithmic foundations of artificial neural networks.

Oracle Database Transactions and Locking Revealed

Apress Oracle Database Transactions and Locking Revealed provides much-needed information for building scalable, high-concurrency applications and deploy them against the Oracle Database. Read this short, 150-page book that is adapted from Expert Oracle Database Architecture to gain a solid and accurate understanding of how locking and concurrency are dealt with by Oracle Database. Also learn how the Oracle Database architecture accommodates user transactions, and how you can write code to mesh with how Oracle Database is designed to operate. Good transaction design is an important facet of highly-concurrent applications that are run by hundreds, even thousands of users who are all executing transactions at the same time. Transaction design in turn relies upon a good understanding of how the underlying database platform manages of the locking of resources so as to prevent access conflicts and data loss that might otherwise result from concurrent access to data in the database. Oracle Database Transactions and Locking Revealed covers in detail the various lock types, and also different locking schemes such as pessimistic and optimistic locking. Then you'll learn about transaction isolation and multiversion concurrency, and how the various lock types support Oracle Database's transactional features. You'll learn some good tips for transaction design, as well as some bad practices and habits to avoid. Coverage is also given to redo and undo, and their role in concurrency. This is an important book that anyone developing highly-concurrent applications will want to have handy on their shelf.

SAT Vocabulary Express : Word Puzzles Designed to Decode the New SAT

Word Puzzles Designed to Decode the New SAT

Mcgraw-hill A fun way to build vocabulary and boost SAT scores Word puzzles are a proven tool for building vocabulary. They nudge the puzzler gently toward shades of meaning, synonym recognition, contextual interpretation, and making educated guesses--all the mental tricks needed to do well on the SAT verbal section. In SAT Vocabulary Express, a top test-prep coach teams up with a leading crossword puzzle author to offer students a fun, effective alternative to standard vocabulary builders. A unique learning tool for breaking the code in the SAT verbal section, this book features: Dozens of crosswords, anagrams, acrostics, cryptograms, and other fun, skill-building puzzles Brainteasers that stimulate vocabulary mastery Tips and techniques for using the puzzles to pump up vocabularies to unprecedented levels--painlessly!

The Art of Thinking Clearly

Harper Collins A world-class thinker counts the 100 ways in which humans behave irrationally, showing us what we can do to recognize and minimize these "thinking errors" to make better decisions and have a better life Despite the best of intentions, humans are notoriously bad—that is, irrational—when it comes to making decisions and assessing risks and tradeoffs. Psychologists and

neuroscientists refer to these distinctly human foibles, biases, and thinking traps as “cognitive errors.” Cognitive errors are systematic deviances from rationality, from optimized, logical, rational thinking and behavior. We make these errors all the time, in all sorts of situations, for problems big and small: whether to choose the apple or the cupcake; whether to keep retirement funds in the stock market when the Dow tanks, or whether to take the advice of a friend over a stranger. The “behavioral turn” in neuroscience and economics in the past twenty years has increased our understanding of how we think and how we make decisions. It shows how systematic errors mar our thinking and under which conditions our thought processes work best and worst. Evolutionary psychology delivers convincing theories about why our thinking is, in fact, marred. The neurosciences can pinpoint with increasing precision what exactly happens when we think clearly and when we don’t. Drawing on this wide body of research, *The Art of Thinking Clearly* is an entertaining presentation of these known systematic thinking errors--offering guidance and insight into everything why you shouldn’t accept a free drink to why you SHOULD walk out of a movie you don’t like it to why it’s so hard to predict the future to why shouldn’t watch the news. The book is organized into 100 short chapters, each covering a single cognitive error, bias, or heuristic. Examples of these concepts include: Reciprocity, Confirmation Bias, The It-Gets-Better-Before-It-Gets-Worse Trap, and the Man-With-A-Hammer Tendency. In engaging prose and with real-world examples and anecdotes, *The Art of Thinking Clearly* helps solve the puzzle of human reasoning.

Further MCQs in Pharmacy Practice

Pharmaceutical Press The book consists of 600 practice-oriented questions and includes both open- and closed-book sections. Answers with brief explanations are given at the end of each test. *FMCQs in Pharmacy Practice* is an invaluable guide for those preparing to sit a multiple choice question examination in pharmacy.

MCQs in Pharmacy Practice

Designed as a study aid, *MCQs in Pharmacy Practice* covers topics commonly featured in pharmacy undergraduate, registration and licensing multiple choice examinations. The book is divided into open book and closed book sections and comprises a total of 800 multiple choice questions (MCQs) intended to assess students' knowledge, analytical skills, and ability to apply knowledge base in clinical practice. In this second edition, newly formatted MCQs have moved to a more detailed question style demanding accrument of knowledge, decision-making skills, factual accuracy and its application to realistic clinical situations. All information has been updated to reflect the content of the current BNF ensuring practical and contemporary questions

The Russian Challenge

Chatham House (Formerly Riiia) The war in Ukraine, and Vladimir Putin's bid to overturn the post-Cold War international settlement in Europe, have forced many Western governments to reappraise their approach to Russia. Until 2003, it was widely believed that a modernizing Russia might be accommodated into the international system as a constructive and benign actor. Variations on this view have given way to the realization that Russia, on its present course, cannot be a partner or ally, and that differences outweigh any common interests. Russia needs reform, but the domestic political obstacles to it are daunting. At the same time, if Moscow maintains its current course, in both economic management and international relations, this will be increasingly dangerous for Europe and costly, if not disastrous, for Russia. The questions addressed in this report are how far those costs will rise, whether Russia can bear them, what will happen if it cannot, and how the West should respond in the near and longer term.

Essentials of Inventory Management

Amacom Books Does inventory management sometimes feel like a waste of time? Learn how to maximize your inventory management process to use it as a tool for making important business decisions.

Oracle Database Transactions and Locking Revealed

Building High Performance Through Concurrency

Apress Access much-needed information for building scalable, high-concurrency applications and deploying them against the Oracle Database. This new edition is updated to be current with Oracle Database 19. It includes a new chapter with troubleshooting recipes to help you quickly diagnose and resolve locking problems that are urgent and block production. Good transaction design is an important facet of highly-concurrent applications that are run by hundreds, even thousands, of users who are executing transactions at the same time. Transaction design, in turn, relies on a good understanding of how the database engine manages the locking of resources to prevent access conflicts and data loss that might otherwise result from concurrent access to data in the database. This book provides a solid and accurate explanation of how locking and concurrency are dealt with by Oracle Database. You will learn how the Oracle Database architecture accommodates user transactions, and how you can write code to mesh with the way in which Oracle Database is designed to operate. *Oracle Database Transactions and Locking Revealed* covers in detail the various lock types, and also different locking schemes such as pessimistic and optimistic locking. Then you will learn about transaction isolation and multi-version concurrency, and how the various lock types support Oracle Database’s transactional features. You will learn tips for transaction design, as well as some bad practices and habits to avoid. Coverage is also given to redo and undo, and their role in concurrency. The book is loaded with insightful code examples that drive home each concept. This is an important book that anyone developing highly-concurrent applications will want to have handy on their shelf. What You Will Learn Avoid application lockups due to conflicts over accessing the same resource Understand how Oracle prevents one application from overwriting another’s modifications Create

transaction designs that mesh with how Oracle Database is designed Build high-throughput applications supporting thousands of concurrent users Design applications to take full advantage of Oracle's powerful database engine Gain a fundamental knowledge of Oracle's transaction and locking architecture Develop techniques to quickly diagnose and resolve common locking issues Who This Book Is For Oracle developers and database administrators faced with troubleshooting and solving deadlocks, locking contention, and similar problems that are encountered in high-concurrency environments; and application developers wanting to design their applications to excel at multi-user concurrency by taking full advantage of Oracle Database's multi-versioning and concurrency support

Heterogeneous Computing with OpenCL 2.0

Morgan Kaufmann Heterogeneous Computing with OpenCL 2.0 teaches OpenCL and parallel programming for complex systems that may include a variety of device architectures: multi-core CPUs, GPUs, and fully-integrated Accelerated Processing Units (APUs). This fully-revised edition includes the latest enhancements in OpenCL 2.0 including:

- Shared virtual memory to increase programming flexibility and reduce data transfers that consume resources
- Dynamic parallelism which reduces processor load and avoids bottlenecks
- Improved imaging support and integration with OpenGL

Designed to work on multiple platforms, OpenCL will help you more effectively program for a heterogeneous future. Written by leaders in the parallel computing and OpenCL communities, this book explores memory spaces, optimization techniques, extensions, debugging and profiling. Multiple case studies and examples illustrate high-performance algorithms, distributing work across heterogeneous systems, embedded domain-specific languages, and will give you hands-on OpenCL experience to address a range of fundamental parallel algorithms. Updated content to cover the latest developments in OpenCL 2.0, including improvements in memory handling, parallelism, and imaging support Explanations of principles and strategies to learn parallel programming with OpenCL, from understanding the abstraction models to thoroughly testing and debugging complete applications Example code covering image analytics, web plugins, particle simulations, video editing, performance optimization, and more

The Art of Thinking Clearly: Better Thinking, Better Decisions

Hachette UK THE SECRET TO PERFECT DECISION-MAKING 'This book will change the way you think' Dan Goldstein, London Business School Have you ever... Invested time in something that, with hindsight, just wasn't worth it? Overpaid in an Ebay auction? Continued doing something you knew was bad for you? Backed the wrong horse? THE ART OF THINKING CLEARLY is essential reading for anyone with important decisions to make. It reveals, in 100 short chapters, the most common errors of judgement, and how to avoid them. Simple, clear and always surprising, this indispensable book will change the way you think and transform your decision-making - at work, at home, every day. SUNDAY TIMES BESTSELLER * GUARDIAN BESTSELLER * INTERNATIONAL BESTSELLER

Bioinformatics for Geneticists

John Wiley & Sons

Logistics

An Introduction to Supply Chain Management

Palgrave Macmillan Logistics is an essential introduction for any business student studying logistics or supply chain management. It takes a broad view of logistics, exploring all the main concepts within a wide business context, with a strong focus on application and practical situations. This clear and well-written text gives a very up-to-date perspective on this fast moving field. It explores the management of logistics and its strategic role within an organization, while examining new developments in the field and providing an international dimension to the subject.

A Philosophical Approach to MOND

Assessing the Milgromian Research Program in Cosmology

Cambridge University Press Dark matter is a fundamental component of the standard cosmological model, but in spite of four decades of increasingly sensitive searches, no-one has yet detected a single dark-matter particle in the laboratory. An alternative cosmological paradigm exists: MOND (MODified Newtonian Dynamics). Observations explained in the standard model by postulating dark matter are described in MOND by proposing a modification of Newton's laws of motion. Both MOND and the standard model have had successes and failures - but only MOND has repeatedly predicted observational facts in advance of their discovery. In this volume, David Merritt outlines why such predictions are considered by many philosophers of science to be the 'gold standard' when it comes to judging a theory's validity. In a world where the standard model receives most attention, the author applies criteria from the philosophy of science to assess, in a systematic way, the viability of this alternative cosmological paradigm.

Original Gangster

The Real Life Story of One of America's Most Notorious Drug Lords

St. Martin's Press A suspenseful memoir from the real life American gangster, Frank Lucas In his own words, Frank Lucas recounts his life as the former heroin dealer and organized crime boss who ran Harlem during the late 1960s and early 1970s. From being taken under the wing of old time gangster Bumpy Johnson, through one of the most successful drug smuggling operations, to being sentenced to seventy years in prison, *Original Gangster* is a chilling look at the rise and fall of a modern legacy. Frank Lucas realized that in order to gain the kind of success he craved he would have to break the monopoly that the Italian mafia held in New York. So Frank cut out middlemen and began smuggling heroin into the United States directly from his source in the Golden Triangle by using coffins. Making a million dollars per day selling "Blue Magic"—what was known as the purest heroin on the street—Frank Lucas became one of the most powerful crime lords of his time, while rubbing shoulders with the elite in entertainment, politics, and crime. After his arrest, Federal Judge Sterling Johnson, the special narcotics prosecutor in New York at the time of Lucas' crimes, called Lucas and his operation "one of the most outrageous international dope-smuggling gangs ever, an innovator who got his own connections outside the U.S. and then sold the narcotics himself in the street." This powerful memoir reveals what really happened to the man whose career was dramatized in the 2007 feature film *American Gangster*, exposing a startling look at the world of organized crime.

The Buffalo (*Bubalus bubalis*) - Production and Research

Bentham Science Publishers This handbook aims at focusing on the husbandry of the common water buffalo, (*Bubalis bubalis*). The book covers a broad range of topics such as the buffalo's genetic evolution, cytogenetics, subspecies, breed diversification, feeding and metabolic specificity, adaptable response to environmental stress factors, welfare, dairy requirements and production, reproduction and embryo technologies, cryopreservation, sperm cell sexing, somatic cell cloning and transgenesis. Chapters presented and reviewed in this book have been by contributed by renowned scientists that have devoted years of research to the understanding of this species, and highlight the most recent advances in basic and applied science to unveil the understanding of physiological facets intrinsic to this animal species. The depth of the selected topics makes this book especially suited for readers of all academic levels of study. Researchers, students and professionals will find this book a useful guide to breeding and farming the water buffalo.

The Principles of Mathematics

W. W. Norton & Company Russell's classic *The Principles of Mathematics* sets forth his landmark thesis that mathematics and logic are identical—that what is commonly called mathematics is simply later deductions from logical premises.

Savage Messiah

Verso Books The acclaimed art fanzine's psychogeographic drifts through a ruined city *Savage Messiah* collects the entire set of Laura Oldfield Ford's fanzine to date. Part graphic novel, part artwork, the book is both an angry polemic against the marginalization of the city's working class and an exploration of the cracks that open up in urban space.

List of Freeman, Massachusetts Bay Colony from 1630 to 1691

With Freeman's Oath, the First Paper Printed in New England

Atlas of Protein Sequence and Structure

Coarse Cohomology and Index Theory on Complete Riemannian Manifolds

American Mathematical Soc. "Coarse geometry" is the study of metric spaces from the asymptotic point of view: two metric spaces (such as the integers and the real numbers) which "look the same from a great distance" are considered to be equivalent. This book develops a cohomology theory appropriate to coarse geometry. The theory is then used to construct "higher indices" for elliptic operators on noncompact complete Riemannian manifolds. Such an elliptic operator has an index in the K -theory of a certain

operator algebra naturally associated to the coarse structure, and this KK -theory then pairs with the coarse cohomology. The higher indices can be calculated in topological terms thanks to the work of Connes and Moscovici. They can also be interpreted in terms of the KK -homology of an ideal boundary naturally associated to the coarse structure. Applications to geometry are given, and the book concludes with a discussion of the coarse analog of the Novikov conjecture.

Social Justice, Multicultural Counseling, and Practice Beyond a Conventional Approach

SAGE This book takes a new approach to teaching students to think and learn about issues of race and diversity. It aims to break down the traditional categorizations of racial/ethnic groupings and focuses on teaching students to think and learn in a multidimensional manner, rather than in a linear fashion. The key to the book lies in its aim to teach students to practise culturally competent counselling by taking into consideration a client's multiple identities, such as a middle-aged, African American woman, who might be facing issues due to her racial grouping, her age and her gender. The book is filled with activities, exercises and examples that help students think about racism in a non-traditional manner, rather than the typical ways often taught, making it very timely and reflecting the transformation of thinking that is occurring in the field.

Mobile Web and Intelligent Information Systems

13th International Conference, MobiWIS 2016, Vienna, Austria, August 22-24, 2016, Proceedings

Springer This book constitutes the refereed proceedings of the 13th International Conference on Mobile Web and Intelligent Information Systems, MobiWIS 2016, held in Vienna, Austria, in August 2016. The 36 papers presented in this volume were carefully reviewed and selected from 98 submissions. They were organization in topical sections named: mobile Web - practice and experience; advanced Web and mobile systems; security of mobile applications; mobile and wireless networking; mobile applications and wearable devices; mobile Web and applications; personalization and social networks.

Exploring Education

An Introduction to the Foundations of Education

Routledge This much-anticipated fifth edition of Exploring Education offers an alternative to traditional foundations texts by combining a point-of-view analysis with primary source readings. Pre- and in-service teachers will find a solid introduction to the foundations disciplines -- history, philosophy, politics, and sociology of education -- and their application to educational issues, including school organization and teaching, curriculum and pedagogic practices, education and inequality, and school reform and improvement. This edition features substantive updates, including additions to the discussion of neo-liberal educational policy, recent debates about teacher diversity, updated data and research, and new selections of historical and contemporary readings. At a time when foundations of education are marginalized in many teacher education programs and teacher education reform pushes scripted approaches to curriculum and instruction, Exploring Education helps teachers to think critically about the "what" and "why" behind the most pressing issues in contemporary education.

Proceedings of the 22nd Engineering Applications of Neural Networks Conference

EANN 2021

Springer Nature This book contains the proceedings of the 22nd EANN "Engineering Applications of Neural Networks" 2021 that comprise of research papers on both theoretical foundations and cutting-edge applications of artificial intelligence. Based on the discussed research areas, emphasis is given in advances of machine learning (ML) focusing on the following algorithms-approaches: Augmented ML, autoencoders, adversarial neural networks, blockchain-adaptive methods, convolutional neural networks, deep learning, ensemble methods, learning-federated learning, neural networks, recurrent - long short-term memory. The application domains are related to: Anomaly detection, bio-medical AI, cyber-security, data fusion, e-learning, emotion recognition, environment, hyperspectral imaging, fraud detection, image analysis, inverse kinematics, machine vision, natural language, recommendation systems, robotics, sentiment analysis, simulation, stock market prediction.

Heterogeneous Computing with OpenCL

Newnes Heterogeneous Computing with OpenCL, Second Edition teaches OpenCL and parallel programming for complex systems that may include a variety of device architectures: multi-core CPUs, GPUs, and fully-integrated Accelerated Processing Units (APUs) such as

AMD Fusion technology. It is the first textbook that presents OpenCL programming appropriate for the classroom and is intended to support a parallel programming course. Students will come away from this text with hands-on experience and significant knowledge of the syntax and use of OpenCL to address a range of fundamental parallel algorithms. Designed to work on multiple platforms and with wide industry support, OpenCL will help you more effectively program for a heterogeneous future. Written by leaders in the parallel computing and OpenCL communities, *Heterogeneous Computing with OpenCL* explores memory spaces, optimization techniques, graphics interoperability, extensions, and debugging and profiling. It includes detailed examples throughout, plus additional online exercises and other supporting materials that can be downloaded at http://www.heterogeneouscompute.org/?page_id=7 This book will appeal to software engineers, programmers, hardware engineers, and students/advanced students. Explains principles and strategies to learn parallel programming with OpenCL, from understanding the four abstraction models to thoroughly testing and debugging complete applications. Covers image processing, web plugins, particle simulations, video editing, performance optimization, and more. Shows how OpenCL maps to an example target architecture and explains some of the tradeoffs associated with mapping to various architectures Addresses a range of fundamental programming techniques, with multiple examples and case studies that demonstrate OpenCL extensions for a variety of hardware platforms

Physical Therapy Effectiveness

BoD - Books on Demand Physical therapy involves non-pharmacological interventions in the management of various clinical conditions. It is important to highlight the physical therapy procedures that are suitable, effective and, in general, do not have side effects or complications when properly performed. Physical therapy can be valuable in different situations along of the various steps of human development and in various clinical disorders. Indeed, topics on different approaches have been included in this book, which makes this book useful for readers to improve their professional performance.

Some Unusual Engines

Cloud Computing for Science and Engineering

MIT Press A guide to cloud computing for students, scientists, and engineers, with advice and many hands-on examples. The emergence of powerful, always-on cloud utilities has transformed how consumers interact with information technology, enabling video streaming, intelligent personal assistants, and the sharing of content. Businesses, too, have benefited from the cloud, outsourcing much of their information technology to cloud services. Science, however, has not fully exploited the advantages of the cloud. Could scientific discovery be accelerated if mundane chores were automated and outsourced to the cloud? Leading computer scientists Ian Foster and Dennis Gannon argue that it can, and in this book offer a guide to cloud computing for students, scientists, and engineers, with advice and many hands-on examples. The book surveys the technology that underpins the cloud, new approaches to technical problems enabled by the cloud, and the concepts required to integrate cloud services into scientific work. It covers managing data in the cloud, and how to program these services; computing in the cloud, from deploying single virtual machines or containers to supporting basic interactive science experiments to gathering clusters of machines to do data analytics; using the cloud as a platform for automating analysis procedures, machine learning, and analyzing streaming data; building your own cloud with open source software; and cloud security. The book is accompanied by a website, Cloud4SciEng.org, that provides a variety of supplementary material, including exercises, lecture slides, and other resources helpful to readers and instructors.

The Budget of the United States Government

Appendix

ExoFrontiers

Big Questions in Exoplanetary Science

This book is a compendium of key scientific questions, challenges, and opportunities across different areas of exoplanetary science. The field is currently experiencing rapid growth, and the book provides a front-row view of the advancements at the cutting-edge of the field. Each chapter contains a short exposition on the most important open questions, challenges, and opportunities in a specific area from the perspective of one or more top experts in the area. It provides a starting point for researchers, experts and non-experts alike, to obtain a quick overview of the forefront of exoplanetary science and a vision for the future of the field. Topics range from observational developments and techniques, including exoplanet detection and characterisation methods and state-of-the-art and future missions, to exoplanet theory and modelling including planet formation, planetary interiors, atmospheres, habitability and the search for life.

History of Union County, New Jersey

Heritage Books

Fitnessgram/activitygram Test Administration Manual

Human Kinetics Publishers

Summit

Wish You Were Here

Arcadia Publishing

Introduction to Nanoscience and Nanotechnology

CRC Press The maturation of nanotechnology has revealed it to be a unique and distinct discipline rather than a specialization within a larger field. Its textbook cannot afford to be a chemistry, physics, or engineering text focused on nano. It must be an integrated, multidisciplinary, and specifically nano textbook. The archetype of the modern nano textbook, *Introduction to Nanoscience and Nanotechnology* builds a solid background in characterization and fabrication methods while integrating the physics, chemistry, and biology facets. The remainder of this color text focuses on applications, examining engineering aspects as well as nanomaterials and industry-specific applications in such areas as energy, electronics, and biotechnology. Also available in two course-specific volumes: *Introduction to Nanoscience* elucidates the nanoscale along with the societal impacts of nanoscience, then presents an overview of characterization and fabrication methods. The authors systematically discuss the chemistry, physics, and biology aspects of nanoscience, providing a complete picture of the challenges, opportunities, and inspirations posed by each facet before giving a brief glimpse at nanoscience in action: nanotechnology. *Fundamentals of Nanotechnology* surveys the field's broad landscape, exploring the physical basics such as nanorheology, nanofluidics, and nanomechanics as well as industrial concerns such as manufacturing, reliability, and safety. The authors then explore the vast range of nanomaterials and systematically outline devices and applications in various industrial sectors. Qualifying instructors who purchase either of these volumes (or the combined set) are given online access to a wealth of instructional materials. These include detailed lecture notes, review summaries, slides, exercises, and more. The authors provide enough material for both one- and two-semester courses.