

Kaplan Courses 2013 At Siam Square Branch

Computational Geometry Mark de Berg, Marc van Krefeld, Mark Overmars, Otfried Cheong. 2013-04-17 This introduction to computational geometry focuses on algorithms. Motivation is provided from the application areas as all techniques are related to particular applications in robotics, graphics, CAD/CAM, and geographic information systems. Modern insights in computational geometry are used to provide solutions that are both efficient and easy to understand and implement.

Fractional Calculus for Hydrology, Soil Science and Geomechanics Ninghu Su. 2020-11-02 This book is a unique integrated treatise, on the concepts of fractional calculus as models with applications in hydrology, soil science and geomechanics. The models are primarily fractional partial differential equations (fPDEs), and in limited cases, fractional differential equations (fDEs). It develops and applies relevant fPDEs and fDEs mainly to water flow and solute transport in porous media and overland, and in some cases, to concurrent flow and energy transfer. It is an integrated resource with theory and applications for those interested in hydrology, hydraulics and fluid mechanics. The self-contained book summarizes the fundamentals for porous media and essential mathematics with extensive references supporting the development of the model and applications.

Crimes Committed by Terrorist Groups Mark S. Hamm. 2011-01 This is a print on demand edition of a hard to find publication. Examines terrorists' involvement in a variety of crimes ranging from motor vehicle violations, immigration fraud, and mfg. illegal firearms to counterfeiting, armed bank

robbery, and smuggling weapons of mass destruction. There are 3 parts: (1) Compares the criminality of internat. jihad groups with domestic right-wing groups. (2) Six case studies of crimes includes trial transcripts, official reports, previous scholarship, and interviews with law enforce. officials and former terrorists are used to explore skills that made crimes possible; or events and lack of skill that the prevented crimes. Includes brief bio. of the terrorists along with descriptions of their org., strategies, and plots. (3) Analysis of the themes in closing arguments of the transcripts in Part 2. Illus.

New Perspectives in Partial Least Squares and Related Methods Herve Abdi, Wynne W. Chin, Vincenzo Esposito Vinzi, Giorgio Russolillo, Laura Trinchera. 2013-10-17 New Perspectives in Partial Least Squares and Related Methods shares original, peer-reviewed research from presentations during the 2012 partial least squares methods meeting (PLS 2012). This was the 7th meeting in the series of PLS conferences and the first to take place in the USA. PLS is an abbreviation for Partial Least Squares and is also sometimes expanded as projection to latent structures. This is an approach for modeling relations between data matrices of different types of variables measured on the same set of objects. The twenty-two papers in this volume, which include three invited contributions from our keynote speakers, provide a comprehensive overview of the current state of the most advanced research related to PLS and related methods. Prominent scientists from around the world took part in PLS 2012 and their contributions covered the multiple dimensions of the partial least squares-based methods. These exciting theoretical developments ranged from partial least squares regression and correlation, component based path modeling to regularized regression and subspace visualization. In following the tradition of the six previous PLS meetings, these contributions also included a large variety of PLS approaches such as PLS

metamodels, variable selection, sparse PLS regression, distance based PLS, significance vs. reliability, and non-linear PLS. Finally, these contributions applied PLS methods to data originating from the traditional econometric/economic data to genomics data, brain images, information systems, epidemiology, and chemical spectroscopy. Such a broad and comprehensive volume will also encourage new uses of PLS models in work by researchers and students in many fields.

Combinatorial Scientific Computing Uwe Naumann,Olaf Schenk.2012-01-25 Combinatorial Scientific Computing explores the latest research on creating algorithms and software tools to solve key combinatorial problems on large-scale high-performance computing architectures. It includes contributions from international researchers who are pioneers in designing software and applications for high-performance computing systems. The book offers a state-of-the-art overview of the latest research, tool development, and applications. It focuses on load balancing and parallelization on high-performance computers, large-scale optimization, algorithmic differentiation of numerical simulation code, sparse matrix software tools, and combinatorial challenges and applications in large-scale social networks. The authors unify these seemingly disparate areas through a common set of abstractions and algorithms based on combinatorics, graphs, and hypergraphs. Combinatorial algorithms have long played a crucial enabling role in scientific and engineering computations and their importance continues to grow with the demands of new applications and advanced architectures. By addressing current challenges in the field, this volume sets the stage for the accelerated development and deployment of fundamental enabling technologies in high-performance scientific computing.

Special Course on Stability and Transition of Laminar Flow .1984

Nonlinear Dynamics and Chaos Steven H. Strogatz.2018-05-04 This textbook is aimed at newcomers

to nonlinear dynamics and chaos, especially students taking a first course in the subject. The presentation stresses analytical methods, concrete examples, and geometric intuition. The theory is developed systematically, starting with first-order differential equations and their bifurcations, followed by phase plane analysis, limit cycles and their bifurcations, and culminating with the Lorenz equations, chaos, iterated maps, period doubling, renormalization, fractals, and strange attractors.

Molecular Evolution Roderick D.M. Page, Edward C. Holmes. 2009-07-14 The study of evolution at the molecular level has given the subject of evolutionary biology a new significance. Phylogenetic 'trees' of gene sequences are a powerful tool for recovering evolutionary relationships among species, and can be used to answer a broad range of evolutionary and ecological questions. They are also beginning to permeate the medical sciences. In this book, the authors approach the study of molecular evolution with the phylogenetic tree as a central metaphor. This will equip students and professionals with the ability to see both the evolutionary relevance of molecular data, and the significance evolutionary theory has for molecular studies. The book is accessible yet sufficiently detailed and explicit so that the student can learn the mechanics of the procedures discussed. The book is intended for senior undergraduate and graduate students taking courses in molecular evolution/phylogenetic reconstruction. It will also be a useful supplement for students taking wider courses in evolution, as well as a valuable resource for professionals. First student textbook of phylogenetic reconstruction which uses the tree as a central metaphor of evolution. Chapter summaries and annotated suggestions for further reading. Worked examples facilitate understanding of some of the more complex issues. Emphasis on clarity and accessibility.

Moral Leadership Franklin, Robert Michael .2020-04-10 A public intellectual and former president of Morehouse College offers reflections on the meaning of moral leadership--

Mathematical Snapshots H. Steinhaus.2012-07-12 Numerous photographs and diagrams explain mathematical phenomena in series of thought-provoking expositions. From simple puzzles to more advanced problems, topics include psychology of lottery players, new and larger prime numbers, and more. 391 illustrations.

Neural Engineering Bin He.2013-01-09 Neural Engineering, 2nd Edition, contains reviews and discussions of contemporary and relevant topics by leading investigators in the field. It is intended to serve as a textbook at the graduate and advanced undergraduate level in a bioengineering curriculum. This principles and applications approach to neural engineering is essential reading for all academics, biomedical engineers, neuroscientists, neurophysiologists, and industry professionals wishing to take advantage of the latest and greatest in this emerging field.

Ranaviruses Matthew J. Gray,V. Gregory Chinchar.2016-10-09 This is the first book on ranaviruses. Ranaviruses are double-stranded DNA viruses that cause hemorrhagic disease in amphibians, reptiles, and fish. They have caused mass die-offs of ectothermic vertebrates in wild and captive populations around the globe. There is evidence that this pathogen is emerging and responsible for population declines in certain locations. Considering that amphibians and freshwater turtles are suitable hosts and the most imperiled vertebrate taxa in the world, ranaviruses can have significant impacts on biodiversity and ecosystem function. Additionally, many fish that are raised in aquaculture facilities and traded internationally are suitable hosts; thus, the potential economic impact of ranaviruses is significant. Ranaviruses also serve as a model for replication and gene function of large double-stranded DNA viruses. There is an urgent need to assemble the contemporary information on ranaviruses and provide guidance on how to assess their threats in populations. Through the Global Ranavirus Consortium, 24 experts from six countries were organize

to write this volume, the first book on ranaviruses. The book begins with a discussion on the global extent of ranaviruses, case histories of infection and disease in ectothermic vertebrates, and current phylogeny. Basic principles of ranavirus ecology and evolution are covered next, with a focus on host-pathogen interactions and how the virus emerges in its environment. There are two chapters that will discuss the molecular biology of ranaviruses, host response to infection, and the genes responsible for immune system evasion. One chapter establishes standards for testing for infection and diagnosing ranaviral disease. The book ends by providing guidance on how to design ranavirus surveillance studies and analyze data to determine risk, and discussing the role of the Global Ranavirus Consortium in organizing research and outreach activities.

Fundamentals of Spacecraft Attitude Determination and Control F. Landis Markley, John L. Crassidis. 2014-05-31 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.

The Finite Volume Method in Computational Fluid Dynamics F. Moukalled, L. Mangani, M. Darwish. 2015-08-13 This textbook explores both the theoretical foundation of the Finite Volume Method (FVM) and its applications in Computational Fluid Dynamics (CFD). Readers will discover a thorough explanation of the FVM numerics and algorithms used for the simulation of incompressible and compressible fluid flows, along with a detailed examination of the components needed for the development of a collocated unstructured pressure-based CFD solver. Two particular CFD codes are explored. The first is uFVM, a three-dimensional unstructured pressure-based finite volume academic CFD code, implemented within Matlab. The second is OpenFOAM®, an open source framework used in the development of a range of CFD programs for the simulation of industrial scale flow problems. With over 220 figures, numerous examples and more than one hundred exercise on FVM numerics, programming, and applications, this textbook is suitable for use in an introductory course on the FVM, in an advanced course on numerics, and as a reference for CFD programmers and researchers.

Quantum Computing National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Intelligence Community Studies Board, Computer Science and Telecommunications Board, Committee on Technical Assessment of the Feasibility and Implications of Quantum Computing. 2019-04-27 Quantum mechanics, the subfield of physics that describes the behavior of very small (quantum) particles, provides the basis for a new paradigm of computing.

First proposed in the 1980s as a way to improve computational modeling of quantum systems, the field of quantum computing has recently garnered significant attention due to progress in building small-scale devices. However, significant technical advances will be required before a large-scale, practical quantum computer can be achieved. *Quantum Computing: Progress and Prospects* provides an introduction to the field, including the unique characteristics and constraints of the technology, and assesses the feasibility and implications of creating a functional quantum computer capable of addressing real-world problems. This report considers hardware and software requirements, quantum algorithms, drivers of advances in quantum computing and quantum devices, benchmarks associated with relevant use cases, the time and resources required, and how to assess the probability of success.

Power Generation, Operation, and Control Allen J. Wood, Bruce F. Wollenberg. 2012-11-07 A comprehensive text on the operation and control of power generation and transmission systems In the ten years since Allen J. Wood and Bruce F. Wollenberg presented their comprehensive introduction to the engineering and economic factors involved in operating and controlling power generation systems in electric utilities, the electric power industry has undergone unprecedented change. Deregulation, open access to transmission systems, and the birth of independent power producers have altered the structure of the industry, while technological advances have created a host of new opportunities and challenges. In *Power Generation, Operation, and Control, Second Edition*, Wood and Wollenberg bring professionals and students alike up to date on the nuts and bolts of the field. Continuing in the tradition of the first edition, they offer a practical, hands-on guide to theoretical developments and to the application of advanced operations research methods to realistic electric power engineering problems. This one-of-a-kind text also addresses the

interaction between human and economic factors to prepare readers to make real-world decisions that go beyond the limits of mere technical calculations. The Second Edition features vital new material, including: * A computer disk developed by the authors to help readers solve complicated problems * Examination of Optimal Power Flow (OPF) * Treatment of unit commitment expanded to incorporate the Lagrange relaxation technique * Introduction to the use of bounding techniques and other contingency selection methods * Applications suited to the new, deregulated systems as well as to the traditional, vertically organized utilities company Wood and Wollenberg draw upon nearly 30 years of classroom testing to provide valuable data on operations research, state estimation methods, fuel scheduling techniques, and more. Designed for clarity and ease of use, this invaluable reference prepares industry professionals and students to meet the future challenges of power generation, operation, and control.

Morphological Plant Modeling: Unleashing Geometric and Topological Potential within the Plant Sciences Alexander Bucksch, Dan Chitwood. 2017-10-13 An increasing population faces the growing demand for agricultural products and accurate global climate models that account for individual plant morphologies to predict favorable human habitat. Both demands are rooted in an improved understanding of the mechanistic origins of plant development. Such understanding requires geometric and topological descriptors to characterize the phenotype of plants and its link to genotypes. However, the current plant phenotyping framework relies on simple length and diameter measurements, which fail to capture the exquisite architecture of plants. The Research Topic “Morphological Plant Modeling: Unleashing Geometric and Topological Potential within the Plant Sciences” is the result of a workshop held at National Institute for Mathematical and Biological Synthesis (NIMBioS) in Knoxville, Tennessee. From 2.-4. September 2015 over 40 scientists from

mathematics, computer science, engineering, physics and biology came together to set new frontiers in combining plant phenotyping with recent results from shape theory at the interface of geometry and topology. In doing so, the Research Topic synthesizes the views from multiple disciplines to reveal the potential of new mathematical concepts to analyze and quantify the relationship between morphological plant features. As such, the Research Topic bundles examples of new mathematical techniques including persistent homology, graph-theory, and shape statistics to tackle questions in crop breeding, developmental biology, and vegetation modeling. The challenge to model plant morphology under field conditions is a central theme of the included papers to address the problems of climate change and food security, that require the integration of plant biology and mathematics from geometry and topology research applied to imaging and simulation techniques. The introductory white paper written by the workshop participants identifies future directions in research, education and policy making to integrate biological and mathematical approaches and to strengthen research at the interface of both disciplines.

Spacecraft Attitude Determination and Control J.R. Wertz.2012-12-06 Roger D. Werking Head, Attitude Determination and Control Section National Aeronautics and Space Administration/ Goddard Space Flight Center Extensive work has been done for many years in the areas of attitude determination, attitude prediction, and attitude control. During this time, it has been difficult to obtain reference material that provided a comprehensive overview of attitude support activities. This lack of reference material has made it difficult for those not intimately involved in attitude functions to become acquainted with the ideas and activities which are essential to understanding the various aspects of spacecraft attitude support. As a result, I felt the need for a document which could be used by a variety of persons to obtain an understanding of the work which has been done in support

of spacecraft attitude objectives. It is believed that this book, prepared by the Computer Sciences Corporation under the able direction of Dr. James Wertz, provides this type of reference. This book can serve as a reference for individuals involved in mission planning, attitude determination, and attitude dynamics; an introductory textbook for students and professionals starting in this field; an information source for experimenters or others involved in spacecraft-related work who need information on spacecraft orientation and how it is determined, but who have neither the time nor the resources to pursue the varied literature on this subject; and a tool for encouraging those who could expand this discipline to do so, because much remains to be done to satisfy future needs.

Introduction to Operations Research Frederick S. Hillier, Gerald J. Lieberman. 2010 This operations research text incorporates a wealth of state-of-the-art, user-friendly software and more coverage of modern operations research topics. This edition features the latest developments in operations research.

Handbook of Healthcare Operations Management Brian T. Denton. 2013-02-28 From the Preface: Collectively, the chapters in this book address application domains including inpatient and outpatient services, public health networks, supply chain management, and resource constrained settings in developing countries. Many of the chapters provide specific examples or case studies illustrating the applications of operations research methods across the globe, including Africa, Australia, Belgium, Canada, the United Kingdom, and the United States. Chapters 1-4 review operations research methods that are most commonly applied to health care operations management including: queuing, simulation, and mathematical programming. Chapters 5-7 address challenges related to inpatient services in hospitals such as surgery, intensive care units, and hospital wards. Chapters 8-10 cover outpatient services, the fastest growing part of many health systems, and

describe operations research models for primary and specialty care services, and how to plan for patient no-shows. Chapters 12 - 16 cover topics related to the broader integration of health services in the context of public health, including optimizing the location of emergency vehicles, planning for mass vaccination events, and the coordination among different parts of a health system. Chapters 17-18 address supply chain management within hospitals, with a focus on pharmaceutical supply management, and the challenges of managing inventory for nursing units. Finally, Chapters 19-20 provide examples of important and emerging research in the realm of humanitarian logistics.

The Abel Prize 2013-2017 Helge Holden, Ragni Piene. 2019-02-23 The book presents the winners of the Abel Prize in mathematics for the period 2013-17: Pierre Deligne (2013); Yakov G. Sinai (2014); John Nash Jr. and Louis Nirenberg (2015); Sir Andrew Wiles (2016); and Yves Meyer (2017). The profiles feature autobiographical information as well as a scholarly description of each mathematician's work. In addition, each profile contains a Curriculum Vitae, a complete bibliography, and the full citation from the prize committee. The book also includes photos for the period 2003-2017 showing many of the additional activities connected with the Abel Prize. As an added feature, video interviews with the Laureates as well as videos from the prize ceremony are provided at an accompanying website (<http://extras.springer.com/>). This book follows on *The Abel Prize: 2003-2007. The First Five Years* (Springer, 2010) and *The Abel Prize 2008-2012* (Springer 2014), which profile the work of the previous Abel Prize winners.

Water Transport in Brick, Stone and Concrete Christopher Hall, William D Hoff. 2011-10-31 This book provides a unified description of transport processes involving saturated and unsaturated flow in inorganic building materials and structures. It emphasizes fundamental physics and materials science, mathematical description, and experimental measurement as a basis for engineering design

and construction practice. Water Transport in Brick

Cuisine and Culture Linda Civitello.2011-03-29 An illuminating account of how history shapes our diets—now in a new revised and updated Third Edition Why did the ancient Romans believe cinnamon grew in swamps guarded by giant killer bats? How did African cultures imported by slavery influence cooking in the American South? What does the 700-seat McDonald's in Beijing serve in the age of globalization? With the answers to these and many more such questions, *Cuisine and Culture, Third Edition* presents an engaging, entertaining, and informative exploration of the interactions among history, culture, and food. From prehistory and the earliest societies in the Fertile Crescent to today's celebrity chefs, *Cuisine and Culture, Third Edition* presents a multicultural and multiethnic approach to understanding how and why major historical events have affected and defined the culinary traditions in different societies. Now revised and updated, this Third Edition is more comprehensive and insightful than ever before. Covers prehistory through the present day—from the discovery of fire to the emergence of television cooking shows Explores how history, culture, politics, sociology, and religion have determined how and what people have eaten through the ages Includes a sampling of recipes and menus from different historical periods and cultures Features French and Italian pronunciation guides, a chronology of food books and cookbooks of historical importance, and an extensive bibliography Includes all-new content on technology, food marketing, celebrity chefs and cooking television shows, and Canadian cuisine. Complete with revealing historical photographs and illustrations, *Cuisine and Culture* is an essential introduction to food history for students, history buffs, and food lovers.

Urban Computing Yu Zheng.2019-02-05 An authoritative treatment of urban computing, offering an overview of the field, fundamental techniques, advanced models, and novel applications. Urban

computing brings powerful computational techniques to bear on such urban challenges as pollution, energy consumption, and traffic congestion. Using today's large-scale computing infrastructure and data gathered from sensing technologies, urban computing combines computer science with urban planning, transportation, environmental science, sociology, and other areas of urban studies, tackling specific problems with concrete methodologies in a data-centric computing framework. This authoritative treatment of urban computing offers an overview of the field, fundamental techniques, advanced models, and novel applications. Each chapter acts as a tutorial that introduces readers to an important aspect of urban computing, with references to relevant research. The book outlines key concepts, sources of data, and typical applications; describes four paradigms of urban sensing in sensor-centric and human-centric categories; introduces data management for spatial and spatio-temporal data, from basic indexing and retrieval algorithms to cloud computing platforms; and covers beginning and advanced topics in mining knowledge from urban big data, beginning with fundamental data mining algorithms and progressing to advanced machine learning techniques. Urban Computing provides students, researchers, and application developers with an essential handbook to an evolving interdisciplinary field.

Exploring Modern Regression Methods Using SAS .2019-06-21 This special collection of SAS Global Forum papers demonstrates new and enhanced capabilities and applications of lesser-known SAS/STAT and SAS Viya procedures for regression models. The goal here is to raise awareness of current valuable SAS/STAT content of which the user may not be aware. Also available free as a PDF from sas.com/books.

Time-Frequency Signal Analysis and Processing Boualem Boashash.2015-12-11 Time-Frequency Signal Analysis and Processing (TFSAP) is a collection of theory, techniques and algorithms used for

the analysis and processing of non-stationary signals, as found in a wide range of applications including telecommunications, radar, and biomedical engineering. This book gives the university researcher and R&D engineer insights into how to use TFSAP methods to develop and implement the engineering application systems they require. New to this edition: New sections on Efficient and Fast Algorithms; a Getting Started chapter enabling readers to start using the algorithms on simulated and real examples with the TFSAP toolbox, compare the results with the ones presented in the book and then insert the algorithms in their own applications and adapt them as needed. Two new chapters and twenty three new sections, including updated references. New topics including: efficient algorithms for optimal TFDs (with source code), the enhanced spectrogram, time-frequency modelling, more mathematical foundations, the relationships between QTFDs and Wavelet Transforms, new advanced applications such as cognitive radio, watermarking, noise reduction in the time-frequency domain, algorithms for Time-Frequency Image Processing, and Time-Frequency applications in neuroscience (new chapter). A comprehensive tutorial introduction to Time-Frequency Signal Analysis and Processing (TFSAP), accessible to anyone who has taken a first course in signals. Key advances in theory, methodology and algorithms, are concisely presented by some of the leading authorities on the respective topics. Applications written by leading researchers showing how to use TFSAP methods.

Recommender Systems Handbook Francesco Ricci, Lior Rokach, Bracha Shapira. 2015-11-17 This second edition of a well-received text, with 20 new chapters, presents a coherent and unified repository of recommender systems' major concepts, theories, methodologies, trends, and challenges. A variety of real-world applications and detailed case studies are included. In addition to wholesale revision of the existing chapters, this edition includes new topics including: decision

making and recommender systems, reciprocal recommender systems, recommender systems in social networks, mobile recommender systems, explanations for recommender systems, music recommender systems, cross-domain recommendations, privacy in recommender systems, and semantic-based recommender systems. This multi-disciplinary handbook involves world-wide experts from diverse fields such as artificial intelligence, human-computer interaction, information retrieval, data mining, mathematics, statistics, adaptive user interfaces, decision support systems, psychology, marketing, and consumer behavior. Theoreticians and practitioners from these fields will find this reference to be an invaluable source of ideas, methods and techniques for developing more efficient, cost-effective and accurate recommender systems.

The Light Breaks on Southeast Asia Reed B. Haslam.2012-12-14 Presents the events that shaped the history of the LDS Church in Indochina.

Parallel Processing for Scientific Computing G. Rodrigue,Society for Industrial and Applied Mathematics.1989-01-01 Mathematics of Computing -- Parallelism.

Domestications Hosam Mohamed Aboul-Ela.2018-08-15 Domestications traces a genealogy of American global engagement with the Global South since World War II. Hosam Aboul-Ela reads American writers contrapuntally against intellectuals from the Global South in their common—yet ideologically divergent—concerns with hegemony, world domination, and uneven development. Using Edward Said’s *Culture and Imperialism* as a model, Aboul-Ela explores the nature of U.S. imperialism’s relationship to literary culture through an exploration of five key terms from the postcolonial bibliography: novel, idea, perspective, gender, and space. Within this framework the book examines juxtapositions including that of Paul Bowles’s *Morocco* with North African intellectuals’ critique of Orientalism, the global treatment of Vietnamese liberation movements with

the American narrative of personal trauma in the novels of Tim O'Brien and Hollywood film, and the war on terror's philosophical idealism with Korean and post-Arab nationalist materialist archival fiction. *Domestications* departs from other recent studies of world literature in its emphases not only on U.S. imperialism but also on intellectuals working in the Global South and writing in languages other than English and French. Although rooted in comparative literature, its readings address issues of key concern to scholars in American studies, postcolonial studies, literary theory, and Middle Eastern studies.

Principles of Animal Locomotion R. McNeill Alexander. 2013-10-31 How can geckoes walk on the ceiling and basilisk lizards run over water? What are the aerodynamic effects that enable small insects to fly? What are the relative merits of squids' jet-propelled swimming and fishes' tail-powered swimming? Why do horses change gait as they increase speed? What determines our own vertical leap? Recent technical advances have greatly increased researchers' ability to answer these questions with certainty and in detail. This text provides an up-to-date overview of how animals run, walk, jump, crawl, swim, soar, hover, and fly. Excluding only the tiny creatures that use cilia, it covers all animals that power their movements with muscle--from roundworms to whales, clams to elephants, and gnats to albatrosses. The introduction sets out the general rules governing all modes of animal locomotion and considers the performance criteria--such as speed, endurance, and economy--that have shaped their selection. It introduces energetics and optimality as basic principles. The text then tackles each of the major modes by which animals move on land, in water, and through air. It explains the mechanisms involved and the physical and biological forces shaping those mechanisms, paying particular attention to energy costs. Focusing on general principles but extensively discussing a wide variety of individual cases, this is a superb synthesis of current

knowledge about animal locomotion. It will be enormously useful to advanced undergraduates, graduate students, and a range of professional biologists, physicists, and engineers.

Dangerous Science Daniel J. Rozell.2020-02-04 The public is generally enthusiastic about the latest science and technology, but sometimes research threatens the physical safety or ethical norms of society. When this happens, scientists and engineers can find themselves unprepared in the midst of an intense science policy debate. In the absence of convincing evidence, technological optimists and skeptics struggle to find common values on which to build consensus. The best way to avoid these situations is to sidestep the instigating controversy by using a broad risk-benefit assessment as a risk exploration tool to help scientists and engineers design experiments and technologies that accomplish intended goals while avoiding physical or moral dangers. Dangerous Science explores the intersection of science policy and risk analysis to detail failures in current science policy practices and what can be done to help minimize the negative impacts of science and technology on society.

Diatom Morphogenesis Vadim V. Annenkov, Joseph Seckbach, Richard Gordon.2021-11-23 DIATOM MORPHOGENESIS A unique book presenting the range of silica structures formed by diatoms, theories and hypotheses of how they are made, and applications to nanotechnology by use or imitation of diatom morphogenesis. There are up to 200,000 species of diatoms, each species of these algal cells bearing an ornate, amorphous silica glass shell. The silica is structured at 7 orders of magnitude size range and is thus the most complex multiscalar solid structure known. Recent research is beginning to unravel how a single cell marshals chemical, physical, biochemical, genetic, and cytoskeletal processes to produce these single-cell marvels. The field of diatom nanotechnology is advancing as this understanding matures. Diatoms have been actively studied over the recent

10-20 years with various modern equipment, experimental and computer simulation approaches, including molecular biology, fluorescence-based methods, electron, confocal, and AFM microscopy. This has resulted in a huge amount of information but the key stages of their silica morphogenesis are still not clear. This is the time to reconsider and consolidate the work performed so far and to understand how we can go ahead. The main objective of this book is to describe the actual situation in the science of diatom morphogenesis, to specify the most important unresolved questions, and to present the corresponding hypotheses. The following areas are discussed: A tutorial chapter, with a glossary for newcomers to the field, who are often from outside of biology, let alone phycology; Diatom Morphogenesis: general issues, including symmetry and size issues; Diatom Morphogenesis: simulation, including analytical and numerical methods for description of the diatom valve shape and pore structure; Diatom Morphogenesis: physiology, biochemistry, and applications, including the relationship between taxonomy and physiology, biosilicification hypotheses, and ideas about applications of diatoms. Audience Researchers, scientists, and graduate students in the fields of phycology, general biology, marine sciences, the chemistry of silica, materials science, and ecology.

Investment Risk Management H. Kent Baker, Greg Filbeck. 2015 All investments carry with them some degree of risk. In the financial world, individuals, professional money managers, financial institutions and many others encounter and must deal with risk. The main purpose of 'Investment Risk Management' is to provide an overview of developments in risk management and a synthesis of research involving the latest developments in the field--

Rising to the Top: Global Women Engineering Leaders Share Their Journeys to Professional Success Global Engineering Deans Council, Interna Engineering Education Societies. 2019-10-23 Engineers are changemakers who play a critical role in solving the grand challenges facing humanity-and its

role will be even more important in the coming decades. Balancing gender representation in the field is a necessity for innovations to continue to evolve, and to ensure engineering advancements include all members of society. *Rising to the Top* provides an intimate and inspiring look into the experiences that have shaped the lives and careers of women engineering leaders from around the world, from Sudan to Chile to Malaysia, and many points in between. By openly sharing their personal journeys in these pages, the authors hope to inspire the next generation of engineering leaders and provide valuable insight into the challenges facing women engineers around the world, and the opportunities that are theirs for the taking. *Rising to the Top* makes it clear that women engineering leaders are not only essential for the advancement of all societies—they are here to stay.

The Year in C-SPAN Archives Research Robert X. Browning. 2018 C-SPAN is the network of record for US political affairs, broadcasting live gavel-to-gavel proceedings of the House of Representatives and the Senate, and to other forums where public policy is discussed, debated, and decided—without editing, commentary, or analysis and with a balanced presentation of points of view. The C-SPAN Archives, located adjacent to Purdue University, is the home of the online C-SPAN Video Library. The Archives has copied all of C-SPAN's television content since 1987. Extensive indexing, captioning, and other enhanced online features provide researchers, policy analysts, students, teachers, and public officials with an unparalleled chronological and internally cross-referenced record for deeper study. *The Year in C-SPAN Archives Research* presents the finest interdisciplinary research utilizing tools of the C-SPAN Video Library. Each volume highlights recent scholarship and comprises leading experts and emerging voices in political science, journalism, psychology, computer science, communication, and a variety of other disciplines. Each section within each volume includes responses from expert discussants. Developed in partnership with the

Brian Lamb School of Communication and with support from the C-SPAN Education Foundation, C-SPAN Insights is guided by the ideal that all experimental outcomes, including those from our American experiment, can be best improved by directed study driving richer engagement and better understanding. The Year in C-SPAN Archives Research--Volume 4, edited by Robert X. Browning, advances our understanding of the framing of mental health, HIV/AIDS, policing, and public health, and explores subjects such as audience reactions in C-SPAN covered debates, the Twitter presidency of Donald Trump, and collaborative learning using the C-SPAN Video Library.

Comparing the Literatures David Damrosch.2022-02-08 Paperback reprint. Originally published: 2020.

Optimization in Operations Research Ronald L. Rardin.2014-01-01 For first courses in operations research, operations management Optimization in Operations Research, Second Edition covers a broad range of optimization techniques, including linear programming, network flows, integer/combinational optimization, and nonlinear programming. This dynamic text emphasizes the importance of modeling and problem formulation and how to apply algorithms to real-world problems to arrive at optimal solutions. Use a program that presents a better teaching and learning experience-for you and your students. Prepare students for real-world problems: Students learn how to apply algorithms to problems that get them ready for their field. Use strong pedagogy tools to teach: Key concepts are easy to follow with the text's clear and continually reinforced learning path. Enjoy the text's flexibility: The text features varying amounts of coverage, so that instructors can choose how in-depth they want to go into different topics.

Algorithms in Computational Molecular Biology Mourad Elloumi,Albert Y. Zomaya.2011-04-04 This book represents the most comprehensive and up-to-date collection of information on the topic of

computational molecular biology. Bringing the most recent research into the forefront of discussion, *Algorithms in Computational Molecular Biology* studies the most important and useful algorithms currently being used in the field, and provides related problems. It also succeeds where other titles have failed, in offering a wide range of information from the introductory fundamentals right up to the latest, most advanced levels of study.

Twenty Lectures on Algorithmic Game Theory Tim Roughgarden. 2016-08-30 Computer science and economics have engaged in a lively interaction over the past fifteen years, resulting in the new field of algorithmic game theory. Many problems that are central to modern computer science, ranging from resource allocation in large networks to online advertising, involve interactions between multiple self-interested parties. Economics and game theory offer a host of useful models and definitions to reason about such problems. The flow of ideas also travels in the other direction, and concepts from computer science are increasingly important in economics. This book grew out of the author's Stanford University course on algorithmic game theory, and aims to give students and other newcomers a quick and accessible introduction to many of the most important concepts in the field. The book also includes case studies on online advertising, wireless spectrum auctions, kidney exchange, and network management.

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