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KEY=S - FRIDA DEANNA

Vision and Voyages for Planetary Science in the Decade 2013-2022

National Academies Press In recent years, planetary science has seen a tremendous growth in new knowledge. Deposits of water ice exist at the Moon's poles. Discoveries on the surface of Mars point to an early warm wet climate, and perhaps conditions under which life could have emerged. Liquid methane rain falls on Saturn's moon Titan, creating rivers, lakes, and geologic landscapes with uncanny resemblances to Earth's. Vision and Voyages for Planetary Science in the Decade 2013-2022 surveys the current state of knowledge of the solar system and recommends a suite of planetary science flagship missions for the decade 2013-2022 that could provide a steady stream of important new discoveries about the solar system. Research priorities defined in the report were selected through a rigorous review that included input from five expert panels. NASA's highest priority large mission should be the Mars Astrobiology Explorer Cacher (MAX-C), a mission to Mars that could help determine whether the planet ever supported life and could also help answer questions about its geologic and climatic history. Other projects should include a mission to Jupiter's icy moon Europa and its subsurface ocean, and the Uranus Orbiter and Probe mission to investigate that planet's interior structure, atmosphere, and composition. For medium-size missions, Vision and Voyages for Planetary Science in the Decade 2013-2022 recommends that NASA select two new missions to be included in its New Frontiers program, which explores the solar system with frequent, mid-size spacecraft missions. If NASA cannot stay within budget for any of these proposed flagship projects, it should focus on smaller, less expensive missions first. Vision and Voyages for Planetary Science in the Decade

2013-2022 suggests that the National Science Foundation expand its funding for existing laboratories and establish new facilities as needed. It also recommends that the program enlist the participation of international partners. This report is a vital resource for government agencies supporting space science, the planetary science community, and the public.

The Chronicles of Narnia Vol III: The Voyage of the Dawn Treader

Enrich Spot Limited The Voyage of the Dawn Treader sees Edmund and Lucy, along with their priggish cousin Eustace Scrubb, return to Narnia. Once there, they join Caspian's voyage on the ship to find the seven lords who were banished when Miraz took over the throne. As they sail toward Aslan's country at the edge of the world, they come face to face with many dangers and wonders, including the place where dreams come true. They discover that their quest is more than they imagined and that the world's end is only the beginning...

The Voyage of the Beagle

The Floating Press Voyage of the Beagle chronicles Charles Darwin's five years as a naturalist on board the H.M.S. Beagle. The notes and observations that he recorded in his diary included Chile, Argentina and Galapagos Islands and encompasses the ecology, geology and anthropology of the places he visits. A fascinating travel memoir the ideas that were later to evolve into Darwin's theory of natural selection find their naissance in Voyage of the Beagle.

Review of Maritime Transport 2020

This series contains the decisions of the Court in both the English and French texts.

Tangata Whenua

An Illustrated History

Bridget Williams Books Tangata Whenua: An Illustrated History charts the sweep of Māori history from ancient origins through to the twenty-first century. Through narrative and images, it offers a striking overview of the past, grounded in specific localities and histories. The story begins with the migration of ancestral peoples out of South China, some 5,000 years ago. Moving through the Pacific, these early voyagers arrived in Aotearoa early in the second millennium AD, establishing themselves as tangata whenua in the place that would become New Zealand. By the nineteenth century, another wave of settlers brought new technology, ideas and trading opportunities - and a struggle for control of the land. Survival and resilience shape the history as it extends into the twentieth century, through two world wars,

the growth of an urban culture, rising protest, and Treaty settlements. Today, at the beginning of the twenty-first century, Māori are drawing on both international connections and their ancestral place in Aotearoa. Fifteen stunning chapters bring together scholarship in history, archaeology, traditional narratives and oral sources. A parallel commentary is offered through more than 500 images, ranging from the elegant shapes of ancient taonga and artefacts to impressions of Māori in the sketchbooks and paintings of early European observers, through the shifting focus of the photographer's lens to the response of contemporary Māori artists to all that has gone before. The many threads of history are entwined in this compelling narrative of the people and the land, the story of a rich past that illuminates the present and will inform the future.

Cross-Level Inference

University of Chicago Press In the last several years, new disputes have erupted over the use of group averages from census areas or voting districts to draw inferences about individual social behavior. Social scientists, policy analysts, and historians often have little choice about using this kind of data, but statistical analysis of them is fraught with pitfalls. The recent debates have led to a new menu of choices for the applied researcher. This volume explains why older methods like ecological regression so often fail, and it gives the most comprehensive treatment available of the promising new techniques for cross-level inference. Experts in statistical analysis of aggregate data, Christopher H. Achen and W. Phillips Shively contend that cross-level inference makes unusually strong demands on substantive knowledge, so that no one method, such as Goodman's ecological regression, will fit all situations. Criticizing Goodman's model and some recent attempts to replace it, the authors argue for a range of alternate techniques, including extensions of cross-tabular, regression analysis, and unobservable variable estimators.

Stratégie et management du voyage d'affaires

Mettre en place un Travel Management performant

Dunod Les voyages d'affaires sont indispensables au développement de l'entreprise et font partie intégrante de sa stratégie. • Pourquoi une politique de voyages efficace est-elle le pivot de tout projet « Voyages » ? • Quelle est la stratégie à mettre en oeuvre pour améliorer la performance Achats du poste « Voyages » ? • Que doit-on impérativement formaliser dans un cahier des charges « Agence de voyages » ? • Comment optimiser les processus de traitement et gérer une refonte des organisations ? • Comment appréhender la sécurité des voyageurs ? Cet ouvrage donne une vision globale du Travel Management et propose une

méthodologie de travail, des cas concrets ainsi que des retours d'expérience et des avis d'experts.

Unfinished Synthesis

Biological Hierarchies and Modern Evolutionary Thought

Oxford University Press on Demand This study provides a stimulating critique of contemporary evolutionary thought, analyzing the Modern Synthesis first developed by Theodosius Dobzhansky, Ernst Mayr, and George Gaylord Simpson. The author argues that although only genes and organisms are taken as historic "individuals" in conventional theory, species, higher taxa, and ecological entities such as populations and communities should also be construed as individuals--an approach that yields the ecological and genealogical hierarchies that interact to produce evolution. This clearly stated, controversial work will provoke much debate among evolutionary biologists, systematists, paleontologists, and ecologists, as well as a wide range of educated lay readers.

The Kingmaking

Book One of the Pendragon's Banner Trilogy

Sourcebooks, Inc. Who was THE MAN Who became THE LEGEND We know as KING ARTHUR? "You are the Pendragon, rightful Lord of Dumnonia and the Summer Land; Lord of less Britain. By all that is right, you ought be seated where Vortigern sits...You ought to be King." Here lies the truth of the Lord of the Summer Land. This is the tale of Arthur flesh and bone. Of the shaping of the man, both courageous and flawed, into the celebrated ruler who inspired armies, who captured Gwenhyfar's heart, and who emerged as the hero of the Dark Ages and the most enduring hero of all time. This is the unexpected story of the making of a king — the legend who united all of Britain. Book One of the Pendragon's Banner Trilogy Includes bonus reading group guide PRAISE FOR THE KINGMAKING "If only all historical fiction could be this good." Historical Novels Review "Helen Hollick has it all. She tells a great story..." Bernard Cornwell "Hollick's interpretation is bold, affecting, and well worth fighting to defend." Publishers Weekly "Compelling, convincing, and —ultimately-unforgettable." Sharon Kay Penman, Bestselling Author of Devil's Blood

Dispelling the Darkness

Voyage in the Malay Archipelago and the Discovery of Evolution by Wallace and Darwin

World Scientific "The facts of variability, of the struggle for existence, of adaptation to conditions, were notorious enough; but none of us had suspected that the road to the heart of the species problem lay through them, until Darwin and Wallace dispelled the darkness." T H Huxley (1887) Darwin is one of the most famous scientists in history. But he was not alone. Comparatively forgotten, Wallace independently discovered evolution by natural selection in Southeast Asia. This book is based on the most thorough research ever conducted on Wallace's voyage. Closely connected, but worlds apart, Darwin and Wallace's stories hold many surprises. Did Darwin really keep his theory a secret for twenty years? Did he plagiarise Wallace? Were their theories really the same? How did Wallace hit on the solution, and on which island? This book reveals for the first time the true story of Darwin, Wallace and the discovery that would change our understanding of life on Earth forever. Sample Chapter(s) Introduction (247 KB) Chapter 1: Great Expectations (6,496 KB) Contents: Introduction Great Expectations Empires of Steam Singapore Malacca and Borneo Testing the Waters Crossing the Line In Search of Paradise Struggle and Spice The Longest Day Darwin's Delay Crossing Back Counting Up Readership: Student, professional, general public. Keywords: Evolution; Natural Selection; Biology; Biography; Alfred Russel Wallace; Charles Darwin; History of Science; Malay Archipelago Key Features: The book provides a thorough revision of Wallace in Southeast Asia and his discoveries. Numerous current understandings of Wallace are shown to be myths The book reveals the details of Wallace's steamer trip to Asia His Singapore stay is revealed for the first time — with many surprising new details His famous Sarawak law paper is shown to be radically different from existing interpretations It includes a previously unknown component of his theorising — Wallace's deep law The book solves the mystery of what led to Wallace's eureka moment of discovering natural selection The book solves the long-standing mystery of whether he discovered evolution on Ternate or Gilolo The book is the first to show what Wallace's original evolution theory really was — it was rather different from Darwin's. This settles the old debate about the differences between the theories of Wallace and Darwin The book solves the old mystery of when Wallace sent his theory to Darwin — and WHY he did not send it straight for publication The book corrects scores of dates and names never given or given wrong by Wallace Reviews: "The story of Wallace will never be the same again. John van Wyhe has delved deeply into archives and brings Wallace's travels wonderfully back to life by discovering new facts about his voyage and theories. Without downplaying the impact of Darwin, van

Wyhe's book reveals Wallace as a great evolutionary thinker in his own right, who truly deserves to be considered in context." Janet Browne Aramont Professor of the History of Science Harvard University "This book greatly advances our knowledge of Wallace by correcting a plethora of misleading myths, by reconstructing Wallace's travels, experiences and reflections with authoritative precision, interpretive sophistication, archival documentation and by insightful clarifications of Wallace and Darwin's interactions, divergences and convergences. The overall result is a major scholarly contribution to the intellectual and social history of Wallacean science and of Darwinian science in their original, distinctive cultural contexts." Jonathan Hodge Honorary Fellow, History and Philosophy of Science University of Leeds "The first published notebook of Wallace's travel to the Malay Archipelago is a long-awaited addition to all the biographies and studies, as they offer the unique insight into the development of Wallace's thinking during his long journey. John van Wyhe makes extensive use of Wallace's notes, but only in their totality they make an impact and give way to emergence of Wallace's personality in many sides." Thomas Weber Frankfurter Allgemeine Zeitung "Van Wyhe is not guilty of any such bias against Wallace and in fact deserves these reviewers' thanks for elucidating for the first time exactly how these two fascinating men discovered the way life on Earth evolves." Gordon Chancellor, author of The Dispersal of Darwin "The book has marvelous illustrations of the flora and fauna observed by Wallace, as well as other images of the period, and is ideal for historian as well as naturalists." CHOICE "This book is certainly one of the best resources for documenting Wallace's time in the Malay archipelago, as well as giving a good and balanced overview of his life. It also achieves what the author sets out to do: putting the record straight." Biological Journal of the Linnean Society

Industrial Ethernet on the Plant Floor

A Planning and Installation Guide

ISA This book provides guidance on how to select components, layout, install, test, certify, and troubleshoot a network system. It discusses designing industrial physical layers, network architectures, and components. The book educates the reader on the basics of noise, how to mitigate and abate it through installation techniques and selection of components that would provide a level of performance needed in a hostile industrial environment The major topics include: • Grounding and Bonding • IT and Industrial Control Networks • Environmental Considerations • MICE Tutorial • Installation Guidance • Certification • Troubleshooting

Combinatorial Methods in Density Estimation

Springer Science & Business Media Density estimation has evolved enormously since the days of bar plots and histograms, but researchers and users are still struggling with the problem of the selection of the bin widths. This text explores a new paradigm for the data-based or automatic selection of the free parameters of density estimates in general so that the expected error is within a given constant multiple of the best possible error. The paradigm can be used in nearly all density estimates and for most model selection problems, both parametric and nonparametric. It is the first book on this topic. The text is intended for first-year graduate students in statistics and learning theory, and offers a host of opportunities for further research and thesis topics. Each chapter corresponds roughly to one lecture, and is supplemented with many classroom exercises. A one year course in probability theory at the level of Feller's Volume 1 should be more than adequate preparation. Gabor Lugosi is Professor at Universitat Pompeu Fabra in Barcelona, and Luc Debroye is Professor at McGill University in Montreal. In 1996, the authors, together with László Györfi, published the successful text, *A Probabilistic Theory of Pattern Recognition* with Springer-Verlag. Both authors have made many contributions in the area of nonparametric estimation.

Travels To The Nanoworld

Basic Books Our lives are about to be changed by new technologies that operate on a scale that is smaller than can be seen by the most optical microscopes. Devices inspired by living cells and measured in nanometers--billionths of a meter--are the basis of this nanotechnology revolution. In *TRAVELS TO THE NANOWORLD, Miniature Machinery in Nature and Technology*, Michael Gross takes us to this world to explore natural processes and new technologies that will make modern machines look like relics from the Stone Age. The living cell provides a starting point. All its vital processes, including chemical reactions, catalysis, movement, data storage and processing, and energy conversion, are directed and carried out by structures whose dimensions are on the nanometer scale. As biochemists have come to understand the mechanisms of this "nanotechnology of nature", the chances of generating artificial systems of similar performance have grown rapidly. *TRAVELS TO THE NANOWORLD* provides the nonspecialist reader with an introduction into the background, current state and future prospects of this fascinating subject. We begin this journey into the nanoworld with a guided tour starting from molecules, the all-important building blocks of both biology and technology, that can form complex systems both in the cell and in the reaction tube. Complex molecules make up cells, cells make up organisms that evolve to a variety of species, including one that invented technology as we know it. Technology has returned to the small scale and has arrived at the molecular level once again. We continue this trek, the major developments and success stories in the exploration and utilization of these natural and synthetic

nanoworlds. These highlights of cutting-edge research are grouped into the more biological approaches, including workings of proteins, genes, and cells, followed by the development of applications including supramolecular chemistry, small-scale technology, and biotechnology. TRAVELS TO THE NANOWORLD concludes with a discussion of present applications and future prospects for nanotechnology. The exciting revolutionary potential of nanotechnology is balanced by a cautionary note emphasizing the need for us all to be well informed about the technological path we are heading toward.

Guide to the Archive of Art and Design, Victoria & Albert Museum

Taylor & Francis First Published in 2001. Routledge is an imprint of Taylor & Francis, an informa company.

The Intimate Life of an Ottoman Statesman, Melek Ahmed Pasha (1588-1662)

As Portrayed in Evliya Celebi's Book of Travels (Seyahat-name)

SUNY Press Robert Dankoff has culled passages from Evliya Celebi's Book of Travels that deal directly with the life and times of Celebi's patron, Melek Ahmed Pasha, an outstanding seventeenth-century military and administrative leader. Celebi's account is sensitive to all the currents of his age and reflects them in his narrative. His wry comments and observations extend from the intimate details of daily life, and the attitudes of the lower classes, to the deeds of the mighty, the ideals of the age, and the fate of the empire. He concentrates on the later phase of Pasha's career, beginning with his appointment as Grand Vizier in 1650. Because Celebi was Pasha's confidant as well as his protege, there is a level of intimacy, almost a psychological portrait, quite unusual in Ottoman and Islamic literature. The narrative highlights the private side of this public figure -- his weaknesses as well as his heroics; his religious life and domestic affairs -- in particular, his relations with his two successive wives, both sultanas or princesses.

Democracy and Development

Cambridge University Press This book is a uniquely wide-ranging study of the meaning of democracy and the factors which determine its level. Drawing on data

from all 132 sovereign states of the Third World, it first specifies the essential elements of democracy (the holding of elections to decision making bodies, and the maintenance of political liberties), and then tests theories suggested to explain its varying level through statistical analysis. Theories related to socio-economic conditions, demographic and cultural factors, and institutional arrangements are explored in a cross-national perspective.

Spaces of Consumption

Leisure and Shopping in the English Town, C. 1680-1830

Routledge Consumption is well established as a key theme in the study of the eighteenth century. Spaces of Consumption brings a new dimension to this subject by looking at it spatially. Taking English towns as its scene, this inspiring study focuses on moments of consumption – selecting and purchasing goods, attending plays, promenading – and explores the ways in which these were related together through the spaces of the town: the shop, the theatre and the street. Using this fresh form of analysis, it has much to say about sociability, politeness and respectability in the eighteenth century.

Europe in the Media

A Comparison of Reporting, Representation, and Rhetoric in National Media Systems in Europe

Routledge Europe in the Media draws together the results of several research projects that examined media coverage of European political and cultural affairs and media representations of Europe. The book attempts to outline some of the important debates regarding European integration and to describe the media landscape in which these debates are informed, reflected, and facilitated. The research presented sought to answer several questions, namely the role of the media in the democratic process at the European level and the extent to which the media contributes to and reflects the process of European integration. The book provides a wide scope of comparative analysis, allowing for an extremely interesting overview of the way that national media systems in France, Germany, Ireland, Italy, the Netherlands, Poland, Spain, Sweden, and the United Kingdom approach the issue of European integration. Based on the news output of over 50 media outlets in eight countries, this book contains the original data gathered by experts during two 1-

week monitoring periods, as well as data that was collected and coded by experts with reference to the programming of more than 12 major broadcasters in six countries. This volume addresses debates and analysis from the fields of political science in relation to the process of European integration, EU policymaking and public participation and opinion-formation. It also outlines relevant media theory regarding the relationships between the media and democracy, and the media and identity formation. In this way, the book provides a valuable link between these two separate fields of investigation in an area that is of increasing interest to academics, students, politicians, and journalists.

Introduction to Electroweak Unification

Standard Model from Tree Unitarity

World Scientific This book provides a novel introduction to the Standard Model of electroweak unification. It presents, in pedagogical form, a detailed derivation of the Standard Model from the high energy behavior of tree-level Feynman graphs. In this respect, the present text is unique among the existing monographs and textbooks on this subject, and fills a gap in the current literature on electroweak interactions.

Cosmopolitan Europe

Polity Europe is Europe's last remaining realistic political utopia. But Europe remains to be understood and conceptualized. This historically unique form of international community cannot be explained in terms of the traditional concepts of politics and the state, which remain trapped in the straightjacket of methodological nationalism. Thus, if we are to understand cosmopolitan Europe, we must radically rethink the conventional categories of social and political analysis. Just as the Peace of Westphalia brought the religious civil wars of the seventeenth century to an end through the separation of church and state, so too the separation of state and nation represents the appropriate response to the horrors of the twentieth century. And just as the secular state makes the exercise of different religions possible, so too cosmopolitan Europe must guarantee the coexistence of different ethnic, religious and political forms of life across national borders based on the principle of cosmopolitan tolerance. The task the authors have set themselves in this book is nothing less than to rethink Europe as an idea and a reality. It represents an attempt to understand the process of Europeanization in light of the theory of reflexive modernization and thereby to redefine it at both the theoretical and the political level. This book completes Ulrich Beck's trilogy on 'cosmopolitan realism', the volumes of which complement each other and can be read independently. It is essential reading for anyone interested in the key social and political developments of our time.

The VHDL Handbook

Springer Science & Business Media This book is intended to be a working reference for electronic hardware designers who are interested in writing VHDL models. A handbook/cookbook approach is taken, with many complete examples used to illustrate the features of the VHDL language and to provide insight into how particular classes of hardware devices can be modelled in VHDL. It is possible to use these models directly or to adapt them to similar problems with minimal effort. This book is not intended to be a complete reference manual for the VHDL language. It is possible to begin writing VHDL models with little background in VHDL by copying examples from the book and adapting them to particular problems. Some exposure to the VHDL language prior to using this book is recommended. The reader is assumed to have a solid hardware design background, preferably with some simulation experience. For the reader who is interested in getting a complete overview of the VHDL language, the following publications are recommended reading: • An Introduction to VHDL: Hardware Description and Design [LIP89] • IEEE Standard VHDL Language Reference Manual [IEEE87] • Chip-Level Behavioral Modelling [ARMS88] • Multi-Level Simulation of VLSI Systems [COEL87] Other references of interest are [USG88], [DOD88] and [CLSI87] Use of the Book If the reader is familiar with VHDL, the models described in chapters 3 through 7 can be applied directly to design problems.

Dynamics in Atmospheric Physics

Cambridge University Press Motion is manifest in the atmosphere in an almost infinite variety of ways. In *Dynamics in Atmospheric Physics*, Dr. Richard Lindzen describes the nature of motion in the atmosphere, develops fluid dynamics relevant to the atmosphere, and explores the role of motion in determining the climate and atmospheric composition. The author presents the material in a lecture note style, and the emphasis throughout is on describing phenomena that are at the frontiers of current research, but due attention is given to the methodology of research and to the historical background of these topics. The author's treatment and choice of topics is didactic. Problems at the end of each chapter will help students assimilate the material. In general the discussions emphasize physical concepts, and throughout Dr. Lindzen makes a concerted effort to avoid the notion that dynamic meteorology is simply the derivation of equations and their subsequent solution. His desire is that interested students will delve further into solution details. The book is intended as a text for first year graduate students in the atmospheric sciences. Although the material in the book is self contained, a familiarity with differential equations is assumed; some background in fluid mechanics is helpful.

Wafer-Level Integrated Systems

Implementation Issues

Springer From the perspective of complex systems, conventional ICs can be regarded as "discrete" devices interconnected according to system design objectives imposed at the circuit board level and higher levels in the system implementation hierarchy. However, silicon monolithic circuits have progressed to such complex functions that a transition from a philosophy of integrated circuits (ICs) to one of integrated systems is necessary. Wafer-scale integration has played an important role over the past few years in highlighting the system level issues which will most significantly impact the implementation of complex monolithic systems and system components. Rather than being a revolutionary approach, wafer-scale integration will evolve naturally from VLSI as defect avoidance, fault tolerance and testing are introduced into VLSI circuits. Successful introduction of defect avoidance, for example, relaxes limits imposed by yield and cost on IC dimensions, allowing the monolithic circuit's area to be chosen according to the natural partitioning of a system into individual functions rather than imposing area limits due to defect densities. The term "wafer level" is perhaps more appropriate than "wafer-scale". A "wafer-level" monolithic system component may have dimensions ranging from conventional yield-limited IC dimensions to full wafer dimensions. In this sense, "wafer-scale" merely represents the obvious upper practical limit imposed by wafer sizes on the area of monolithic circuits. The transition to monolithic, wafer-level integrated systems will require a mapping of the full range of system design issues onto the design of monolithic circuit.

Network Simulation

Morgan & Claypool Publishers A detailed introduction to the design, implementation, and use of network simulation tools is presented. The requirements and issues faced in the design of simulators for wired and wireless networks are discussed. Abstractions such as packet- and fluid-level network models are covered. Several existing simulations are given as examples, with details and rationales regarding design decisions presented. Issues regarding performance and scalability are discussed in detail, describing how one can utilize distributed simulation methods to increase the scale and performance of a simulation environment. Finally, a case study of two simulation tools is presented that have been developed using distributed simulation techniques. This text is essential to any student, researcher, or network architect desiring a detailed understanding of how network simulation tools are designed, implemented, and used.

Sequence — Evolution — Function

Computational Approaches in Comparative Genomics

Springer Science & Business Media Sequence - Evolution - Function is an introduction to the computational approaches that play a critical role in the emerging new branch of biology known as functional genomics. The book provides the reader with an understanding of the principles and approaches of functional genomics and of the potential and limitations of computational and experimental approaches to genome analysis. Sequence - Evolution - Function should help bridge the "digital divide" between biologists and computer scientists, allowing biologists to better grasp the peculiarities of the emerging field of Genome Biology and to learn how to benefit from the enormous amount of sequence data available in the public databases. The book is non-technical with respect to the computer methods for genome analysis and discusses these methods from the user's viewpoint, without addressing mathematical and algorithmic details. Prior practical familiarity with the basic methods for sequence analysis is a major advantage, but a reader without such experience will be able to use the book as an introduction to these methods. This book is perfect for introductory level courses in computational methods for comparative and functional genomics.

Geotechnics, Level IV

Street-level Democracy

Political Settings at the Margins of Global Power

Kumarian Press Street-Level Democracy looks at the conflicts between global power and local action. The book highlights seven distinct regions of the world and considers how active citizens experience and respond to the pressures of change. Barker also presents a new method of research into the dynamics of everyday politics. Street-Level Democracy includes colourful and detailed case material. It sets up comparisons among different towns and cities around the world. These broad-based studies make it an excellent resource for students, libraries, and community activists.

Miles of Tiles

American Mathematical Soc. ``In this book, we try to display the value (and joy!) of starting from a mathematically amorphous problem and combining ideas from diverse sources to produce new and significant mathematics--mathematics

unforeseen from the motivating problem ... " --from the Preface The common thread throughout this book is aperiodic tilings; the best-known example is the "kite and dart" tiling. This tiling has been widely discussed, particularly since 1984 when it was adopted to model quasicrystals. The presentation uses many different areas of mathematics and physics to analyze the new features of such tilings. Although many people are aware of the existence of aperiodic tilings, and maybe even their origin in a question in logic, not everyone is familiar with their subtleties and the underlying rich mathematical theory. For the interested reader, this book fills that gap. Understanding this new type of tiling requires an unusual variety of specialties, including ergodic theory, functional analysis, group theory and ring theory from mathematics, and statistical mechanics and wave diffraction from physics. This interdisciplinary approach also leads to new mathematics seemingly unrelated to the tilings. Included are many worked examples and a large number of figures. The book's multidisciplinary approach and extensive use of illustrations make it useful for a broad mathematical audience.

High-level Manpower in Iran From Hidden Conflict to Crisis

Greenwood

The Critical Mass in Collective Action

Cambridge University Press The problem of collective action is that each group member wants other members to make necessary sacrifices while he or she 'free rides', reaping the benefits of collective action without doing the work. Therefore, no one does the work and the common interest is not realized. This book analyses the social pressure whereby groups solve the problem of collective action.

The Conspiracy of the Text The Place of Narrative in the Development of Thought

Routledge

Formal Verification of Circuits

Springer Formal verification has become one of the most important steps in circuit design. Since circuits can contain several million transistors, verification of such

large designs becomes more and more difficult. Pure simulation cannot guarantee the correct behavior and exhaustive simulation is often impossible. However, many designs, like ALUs, have very regular structures that can be easily described at a higher level of abstraction. For example, describing (and verifying) an integer multiplier at the bit-level is very difficult, while the verification becomes easy when the outputs are grouped to build a bit-string. Recently, several approaches for formal circuit verification have been proposed that make use of these regularities. These approaches are based on Word-Level Decision Diagrams (WLDDs) which are graph-based representations of functions (similar to BDDs) that allow for the representation of functions with a Boolean range and an integer domain. *Formal Verification of Circuits* is devoted to the discussion of recent developments in the field of decision diagram-based formal verification. Firstly, different types of decision diagrams (including WLDDs) are introduced and theoretical properties are discussed that give further insight into the data structure. Secondly, implementation and minimization concepts are presented. Applications to arithmetic circuit verification and verification of designs specified by hardware description languages are described to show how WLDDs work in practice. *Formal Verification of Circuits* is intended for CAD developers and researchers as well as designers using modern verification tools. It will help people working with formal verification (in industry or academia) to keep informed about recent developments in this area.

Multiscale Potential Theory With Applications to Geoscience

Springer Science & Business Media This self-contained text/reference provides a basic foundation for practitioners, researchers, and students interested in any of the diverse areas of multiscale (geo)potential theory. New mathematical methods are developed enabling the gravitational potential of a planetary body to be modeled using a continuous flow of observations from land or satellite devices. Harmonic wavelets methods are introduced, as well as fast computational schemes and various numerical test examples. Presented are multiscale approaches for numerous geoscientific problems, including geoidal determination, magnetic field reconstruction, deformation analysis, and density variation modelling. With exercises at the end of each chapter, the book may be used as a textbook for graduate-level courses in geomathematics, applied mathematics, and geophysics. The work is also an up-to-date reference text for geoscientists, applied mathematicians, and engineers.

A Voyage For Madmen

Harper Collins In the tradition of *Into Thin Air* and *The Perfect Storm*, comes a breathtaking oceanic adventure about an obsessive desire to test the limits of human endurance. In 1968 nine sailors set off on the most daring race ever held and never before completed: to single-handedly circumnavigate the globe nonstop. Ten

months later, only one of the nine men would cross the finish line and earn fame, wealth, and glory. For the others, the reward was madness, failure, and death. Gorgeously written and meticulously researched by author Peter Nichols, this extraordinary book chronicles the contest of the individual against the sea, waged at a time before cell phones, satellite dishes, and electronic positioning systems. *A Voyage for Madmen* is a tale of sailors driven by their own dreams and demons, of horrific storms, and of those riveting moments when a decision means the difference between life and death.

Costs of Air Pollution Control Analyses of Emission Control Options for Ozone Abatement Strategies

Springer Science & Business Media This book describes the development of cost effective abatement strategies aimed at controlling air pollutant emissions in Europe, particularly ground level ozone. The author gives a thorough evaluation of the results achieved for different environmental targets, and proposes a modelling scheme for emission targets required to achieve compliance with EU thresholds, and calculations reveal the need to review established ozone thresholds and emission limits.

Introduction to Formal Hardware Verification

Springer Science & Business Media This advanced textbook presents an almost complete overview of techniques for hardware verification. It covers all approaches used in existing tools, such as binary and word-level decision diagrams, symbolic methods for equivalence and temporal logic model checking, and introduces the use of higher-order logic theorem proving for verifying circuit correctness. Each chapter contains an introduction and a summary as well as a section for the advanced reader, aiding an understanding of the advantages and limitations of each technique. Backed by many examples and illustrations, this text will appeal to a broad audience, from beginners in system design to experts. XXXXXXXX Neuer Text This is a complete overview of existing techniques for hardware verification. It covers all approaches used in existing verification tools, such as symbolic methods for equivalence checking, temporal logic model checking, and higher-order logic theorem proving for verifying circuit correctness. The book helps readers to understand the advantages and limitations of each technique. Each chapter contains a summary as well as a section for the advanced reader.

Potential Theory on Infinite-dimensional Abelian Groups

Walter de Gruyter The series is devoted to the publication of monographs and high-level textbooks in mathematics, mathematical methods and their applications. Apart from covering important areas of current interest, a major aim is to make topics of an interdisciplinary nature accessible to the non-specialist. The works in this series are addressed to advanced students and researchers in mathematics and theoretical physics. In addition, it can serve as a guide for lectures and seminars on a graduate level. The series *de Gruyter Studies in Mathematics* was founded ca. 35 years ago by the late Professor Heinz Bauer and Professor Peter Gabriel with the aim to establish a series of monographs and textbooks of high standard, written by scholars with an international reputation presenting current fields of research in pure and applied mathematics. While the editorial board of the *Studies* has changed with the years, the aspirations of the *Studies* are unchanged. In times of rapid growth of mathematical knowledge carefully written monographs and textbooks written by experts are needed more than ever, not least to pave the way for the next generation of mathematicians. In this sense the editorial board and the publisher of the *Studies* are devoted to continue the *Studies* as a service to the mathematical community. Please submit any book proposals to Niels Jacob. Titles in planning include Flavia Smarazzo and Alberto Tesei, *Measure Theory: Radon Measures, Young Measures, and Applications to Parabolic Problems* (2019) Elena Cordero and Luigi Rodino, *Time-Frequency Analysis of Operators* (2019) Mark M. Meerschaert, Alla Sikorskii, and Mohsen Zayernouri, *Stochastic and Computational Models for Fractional Calculus, second edition* (2020) Mariusz Lemańczyk, *Ergodic Theory: Spectral Theory, Joinings, and Their Applications* (2020) Marco Abate, *Holomorphic Dynamics on Hyperbolic Complex Manifolds* (2021) Miroslava Antic, Joeri Van der Veken, and Luc Vrancken, *Differential Geometry of Submanifolds: Submanifolds of Almost Complex Spaces and Almost Product Spaces* (2021) Kai Liu, Ilpo Laine, and Lianzhong Yang, *Complex Differential-Difference Equations* (2021) Rajendra Vasant Gurjar, Kayo Masuda, and Masayoshi Miyanishi, *Affine Space Fibrations* (2022)

The Gingerbread Man

Usborne Pub Limited Retells the fairy tale in which a gingerbread man outruns an old man, a cow, a farmer, and a school full of children, but is ultimately eaten by a crafty fox.

The Two Sides of Perception

MIT Press Anatomically, the central nervous system looks remarkably symmetrical--from the relatively simple structures of the spinal cord to the extensively convoluted folds of the cerebral hemispheres. At the functional level, however, there are striking differences between the left and right hemispheres. Although popular writings

attribute language abilities to the left hemisphere and spatial abilities to the right, differences in hemispheric function appear to be more subtle. According to Ivry and Robertson, asymmetries over a wide range of perceptual tasks reflect a difference in strength rather than kind, with both hemispheres contributing to the performance of complex tasks, whether linguistic or spatial. After an historical introduction, the authors offer a cognitive neuroscience perspective on hemispheric specialization in perception. They propose that the two hemispheres differ in how they filter task-relevant sensory information. Building on the idea that the hemispheres construct asymmetric representations, the hypothesis provides a novel account of many laterality effects. A notable feature of the authors' work is their attempt to incorporate hemispheric specialization in vision, audition, music, and language within a common framework. In support of their theory, they review studies involving both healthy and neurologically impaired individuals. They also provide a series of simulations to demonstrate the underlying computational principles of their theory. Their work thus describes both the cognitive and neurological architecture of hemispheric asymmetries in perception.

Reviewing Britain's Defence

Dartmouth Publishing Company British defence policy since 1970 is studied using the device of distinguishing between stated, operational and industrial levels of policy making. In an ideal world these levels should be in line, or, if out of line, should be so as a result of deliberate policy rather than inadvertence. Failure to bring some of these levels of policy into line, in spite of attempts to do so, accounts for a variety of otherwise puzzling features of British defence policy - consistently high defence budgets (also the subject of a statistical annex) even when compared to France, a navy still virtually as large as the next two largest navies added together, and the 90 per cent of all armaments for British forces consistently purchased from British industry at a time of rapidly diminishing British industrial competitiveness. The intuitively important phenomenon of the defence review is placed in context as an act designed to resolve contradictions and inconsistencies between the different levels of policy.