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International Books in Print 1997

Origins Karl H. Pribram 2018-10-24 The result of the second Appalachian conference on neurodynamics, this volume focuses on the problem of "order," its origins, evolution, and future. Central to this concern lies our understanding of time. Both classical and quantum physics have developed their conceptions within a framework of time symmetry. Divided into four major sections, this book: * provides refreshingly new approaches to the problem of the evolution of order, indicating the directions that need to be taken in subsequent conferences which will address learning and memory more directly; * addresses the issue of how information becomes transmitted in the nervous system; * shows how patterns are constructed at the synaptodendritic level of processing and how such pattern construction relates to image processing; and * deals with the control operations which operate on image processing to construct entities such as visual and auditory objects such as phonemes. The aim of the conference was to bring together professionals to exchange ideas -- some were fairly worked out; others were in their infancy. As a result, one of the most valuable aspects of the conference is that it fostered lasting interactive relationships among these leading researchers.

Nonlinear Electrodynamics in Biological Systems W. Adey 2012-12-06 The past half century has seen an extraordinary growth in the fields of cellular and molecular biology. From simple morphological concepts of cells as the essential units of living matter there has been an ever-sharper focus on functional organization of living systems, with emphasis on molecular dynamics. Thus, life forms have come to be defined increasingly in terms of metabolism, growth, reproduction and responses to environmental perturbations. Since these properties occur in varying degrees in systems below the level of cellular organization, there has been a blurring of older models that restricted the concepts of life to cellular systems. At the same time, a search has begun for elemental aspects of molecular and atomic behavior that might better define

properties common to all life forms. This search has led to an examination of nonlinear behavior in biological macromolecules, whether in response to electrical or chemical stimulation, for example, or as a means of signaling along a molecular chain, or as a means of energy transfer. Experimental knowledge in this area has grown rapidly in the past decade, and in some respects has outstripped theoretical models adequate to explain these new observations. Nevertheless, it can be claimed that there is now an impressive body of experiments implicating non linear, nonequilibrium processes as fundamental steps in sequential operations of biological systems.

Physics and Chemistry of Lakes Abraham Lerman 2012-12-06 A lake, as a body of water, is in continuous interaction with the rocks and soils in its drainage basin, the atmosphere, and surface and groundwaters. Human industrial and agricultural activities introduce new inputs and processes into lake systems. This volume is a selection of ten contributions dealing with diverse aspects of lake systems, including such subjects as the geological controls of lake basins and their histories, mixing and circulation patterns in lakes, gaseous exchange between the water and atmosphere, and human input to lakes through atmospheric precipitation and surficial runoff. This work was written with a dual goal in mind: to serve as a textbook and to provide professionals with in-depth expositions and discussions of the more important aspects of lake systems.

Bibliographic Guide to Music New York Public Library. Music Division 1992

Progressive Sight Reading H. Smith 1986-11-01 Piano Method

Cavity-Enhanced Spectroscopy and Sensing Gianluca Gagliardi 2013-10-19 The book reviews the dramatic recent advances in the use of optical resonators for high sensitivity and high resolution molecular spectroscopy as well as for chemical, mechanical and physical sensing. It encompasses a variety of cavities including those made of two or more mirrors, optical fiber loops, fiber gratings and spherical cavities. The book focuses on novel techniques and their applications. Each chapter is written by an expert and/or pioneer in the field. These experts also provide the theoretical background in optics and molecular physics where needed. Examples of recent breakthroughs include the use of frequency combs (Nobel prize 2005) for cavity enhanced sensing and spectroscopy, the use of novel cavity materials and geometries, the development of optical heterodyne detection techniques combined to active frequency-locking schemes. These methods allow the use and interrogation of optical resonators with a variety of coherent light sources for trace gas detection and sensing of strain, temperature and pressure.

My Double Unveiled Giuseppe Vitiello 2001 This introduction to the dissipative quantum model of brain and to its possible implications for consciousness studies is addressed to a broad interdisciplinary audience. Memory and consciousness are approached from the physicist point of view focusing on the basic observation that the brain is an open system continuously interacting with its environment. The unavoidable dissipative character of the brain

functioning turns out to be the root of the brain's large memory capacity and of other memory features such as memory association, memory confusion, duration of memory. The openness of the brain implies a formal picture of the world which is modeled on the same brain image: a sort of brain copy or "Double", where world objectiveness and the brain implicit subjectivity are conjugated. Consciousness is seen to arise from the permanent "dialogue" of the brain with its Double. The author's narration of his (re-)search gives a cross-over of the physics of elementary particles and condensed matter, and the brain's basic dynamics. This dynamic interplay makes for a "satisfying feeling of the unity of knowledge". (Series A)

Developments in Demographic Forecasting Stefano Mazzucco 2020-09-28 This open access book presents new developments in the field of demographic forecasting, covering both mortality, fertility and migration. For each component emerging methods to forecast them are presented. Moreover, instruments for forecasting evaluation are provided. Bayesian models, nonparametric models, cohort approaches, elicitation of expert opinion, evaluation of probabilistic forecasts are some of the topics covered in the book. In addition, the book is accompanied by complementary material on the web allowing readers to practice with some of the ideas exposed in the book. Readers are encouraged to use this material to apply the new methods to their own data. The book is an important read for demographers, applied statisticians, as well as other social scientists interested or active in the field of population forecasting. Professional population forecasters in statistical agencies will find useful new ideas in various chapters.

Conductor Insulator Quantum Phase Transitions Vladimir Dobrosavljevic 2012-06-01 When many particles come together how do they organize themselves? And what destroys this organization? Combining experiments and theory, this book describes intriguing quantum phases - metals, superconductors and insulators - and transitions between them. It captures the excitement and the controversies on topics at the forefront of research.

Integration of Functional Oxides with Semiconductors Alexander A. Demkov 2014-02-20 This book describes the basic physical principles of the oxide/semiconductor epitaxy and offers a view of the current state of the field. It shows how this technology enables large-scale integration of oxide electronic and photonic devices and describes possible hybrid semiconductor/oxide systems. The book incorporates both theoretical and experimental advances to explore the heteroepitaxy of tuned functional oxides and semiconductors to identify material, device and characterization challenges and to present the incredible potential in the realization of multifunctional devices and monolithic integration of materials and devices. Intended for a multidisciplinary audience, *Integration of Functional Oxides with Semiconductors* describes processing techniques that enable atomic-level control of stoichiometry and structure and reviews characterization techniques for films, interfaces and device performance parameters. Fundamental challenges involved in joining covalent and ionic systems, chemical interactions at interfaces,

multi-element materials that are sensitive to atomic-level compositional and structural changes are discussed in the context of the latest literature. Magnetic, ferroelectric and piezoelectric materials and the coupling between them will also be discussed. GaN, SiC, Si, GaAs and Ge semiconductors are covered within the context of optimizing next-generation device performance for monolithic device processing.

Nonlinear, Tunable and Active Metamaterials Ilya V. Shadrivov 2014-11-01
Metamaterials, artificial electromagnetic media achieved by structuring on the subwave-length-scale were initially suggested for the negative index and superlensing. They became a paradigm for engineering electromagnetic space and controlling propagation of waves. The research agenda is now shifting on achieving tuneable, switchable, nonlinear and sensing functionalities. The time has come to talk about the emerging research field of metadevices employing active and tunable metamaterials with unique functionalities achieved by structuring of functional matter on the subwave-length scale. This book presents the first systematic and comprehensive summary of the reviews written by the pioneers and top-class experts in the field of metamaterials. It addresses many grand challenges of the cutting edge research for creating smaller and more efficient photonic structures and devices.

The British Catalogue of Music 1973

The Future Can't Wait Steven Gale 2013

Who's who in the West 1968

Factfulness Hans Rosling 2018-04-03 INSTANT NEW YORK TIMES BESTSELLER "One of the most important books I've ever read—an indispensable guide to thinking clearly about the world." – Bill Gates "Hans Rosling tells the story of 'the secret silent miracle of human progress' as only he can. But Factfulness does much more than that. It also explains why progress is so often secret and silent and teaches readers how to see it clearly." –Melinda Gates "Factfulness by Hans Rosling, an outstanding international public health expert, is a hopeful book about the potential for human progress when we work off facts rather than our inherent biases." - Former U.S. President Barack Obama
Factfulness: The stress-reducing habit of only carrying opinions for which you have strong supporting facts. When asked simple questions about global trends—what percentage of the world's population live in poverty; why the world's population is increasing; how many girls finish school—we systematically get the answers wrong. So wrong that a chimpanzee choosing answers at random will consistently outguess teachers, journalists, Nobel laureates, and investment bankers. In Factfulness, Professor of International Health and global TED phenomenon Hans Rosling, together with his two long-time collaborators, Anna and Ola, offers a radical new explanation of why this happens. They reveal the ten instincts that distort our perspective—from our tendency to divide the world into two camps (usually some version of us and them) to the way we consume media (where fear rules) to how we perceive

progress (believing that most things are getting worse). Our problem is that we don't know what we don't know, and even our guesses are informed by unconscious and predictable biases. It turns out that the world, for all its imperfections, is in a much better state than we might think. That doesn't mean there aren't real concerns. But when we worry about everything all the time instead of embracing a worldview based on facts, we can lose our ability to focus on the things that threaten us most. Inspiring and revelatory, filled with lively anecdotes and moving stories, *Factfulness* is an urgent and essential book that will change the way you see the world and empower you to respond to the crises and opportunities of the future. --- "This book is my last battle in my life-long mission to fight devastating ignorance...Previously I armed myself with huge data sets, eye-opening software, an energetic learning style and a Swedish bayonet for sword-swallowing. It wasn't enough. But I hope this book will be." Hans Rosling, February 2017.

Bibliographie Deutscher Veröffentlichungen in Englischer Übersetzung 1972-1976
1978

Usefulness of Demographic Modelling Janina Józwiak 1991

The Biodemography of Subsistence Farming James Wood 2020-05-31 An exploration of preindustrial agriculture that applies insights from biodemography, physiological ecology, and household demography.

Lipro 2.0 Evert Imhoff 1991

Jahresverzeichnis der Musikalien und Musikschriften 1979

Current Book Review Citations 1982

The Pianist's Resource Guide Joseph Rezits 1978

Classical Keyboard Music in Print, 1993 1993

Charge Dynamics in 122 Iron-Based Superconductors Aliaksei Charnukha 2013-09-12 This thesis combines highly accurate optical spectroscopy data on the recently discovered iron-based high-temperature superconductors with an incisive theoretical analysis. Three outstanding results are reported: (1) The superconductivity-induced modification of the far-infrared conductivity of an iron arsenide with minimal chemical disorder is quantitatively described by means of a strong-coupling theory for spin fluctuation mediated Cooper pairing. The formalism developed in this thesis also describes prior spectroscopic data on more disordered compounds. (2) The same materials exhibit a sharp superconductivity-induced anomaly for photon energies around 2.5 eV, two orders of magnitude larger than the superconducting energy gap. The author provides a qualitative interpretation of this unprecedented observation, which is based on the multiband nature of the superconducting state. (3) The thesis also develops a comprehensive description of a superconducting, yet optically transparent

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iron chalcogenide compound. The author shows that this highly unusual behavior can be explained as a result of the nanoscopic coexistence of insulating and superconducting phases, and he uses a combination of two complementary experimental methods - scanning near-field optical microscopy and low-energy muon spin rotation - to directly image the phase coexistence and quantitatively determine the phase composition. These data have important implications for the interpretation of data from other experimental probes.

Theoretical Basis for Nursing Melanie McEwan 2021-12-02 Concise, contemporary, and accessible to students with little-to-no prior knowledge of nursing theory, Theoretical Basis for Nursing, 6th Edition, clarifies the application of theory and helps students become more confident, well-rounded nurses. With balanced coverage of grand, middle range, and shared theories, this acclaimed, AJN Award-winning text is extensively researched and easy to read, providing an engaging, approachable guide to developing, analyzing, and evaluating theory in students' nursing careers. Updated content reflects the latest perspectives on clinical judgment, evidence-based practice, and situation-specific theories, accompanied by engaging resources that give students the confidence to apply concepts to their own practice.

Teaching Piano in Groups Christopher Fisher 2010 Teaching Piano in Groups provides a one-stop compendium of information related to all aspects of group piano teaching. Motivated by an ever-growing interest in this instructional method and its widespread mandatory inclusion in piano pedagogy curricula, Christopher Fisher highlights the proven viability and success of group piano teaching, and arms front-line group piano instructors with the necessary tools for practical implementation of a system of instruction in their own teaching. Contained within are: a comprehensive history of group piano teaching; accessible overviews of the most important theories and philosophies of group psychology and instruction; suggested group piano curricular competencies; practical implementation strategies; and thorough recommendations for curricular materials, instructional technologies, and equipment. Teaching Piano in Groups also addresses specific considerations for pre-college teaching scenarios, the public school group piano classroom, and college-level group piano programs for both music major and non-music majors. Teaching Piano in Groups is accompanied by an extensive companion website, featuring a multi-format listing of resources as well as interviews with several group piano pedagogues.

Laser Radar National Research Council 2014-03-14 In today's world, the range of technologies with the potential to threaten the security of U.S. military forces is extremely broad. These include developments in explosive materials, sensors, control systems, robotics, satellite systems, and computing power, to name just a few. Such technologies have not only enhanced the capabilities of U.S. military forces, but also offer enhanced offensive capabilities to potential adversaries - either directly through the development of more sophisticated weapons, or more indirectly through opportunities for interrupting the function of defensive U.S. military systems. Passive and

active electro-optical (EO) sensing technologies are prime examples. Laser Radar considers the potential of active EO technologies to create surprise; i.e., systems that use a source of visible or infrared light to interrogate a target in combination with sensitive detectors and processors to analyze the returned light. The addition of an interrogating light source to the system adds rich new phenomenologies that enable new capabilities to be explored. This report evaluates the fundamental, physical limits to active EO sensor technologies with potential military utility; identifies key technologies that may help overcome the impediments within a 5-10 year timeframe; considers the pros and cons of implementing each existing or emerging technology; and evaluates the potential uses of active EO sensing technologies, including 3D mapping and multi-discriminate laser radar technologies.

Old and New Perspectives on Mortality Forecasting Tommy Bengtsson 2019-03-28 This open access book describes methods of mortality forecasting and discusses possible improvements. It contains a selection of previously unpublished and published papers, which together provide a state-of-the-art overview of statistical approaches as well as behavioural and biological perspectives. The different parts of the book provide discussions of current practice, probabilistic forecasting, the linearity in the increase of life expectancy, causes of death, and the role of cohort factors. The key question in the book is whether it is possible to project future mortality accurately, and if so, what is the best approach. This makes the book a valuable read to demographers, pension planners, actuaries, and all those interested and/or working in modelling and forecasting mortality.

Surface Science Techniques Gianangelo Bracco 2013-01-11 The book describes the experimental techniques employed to study surfaces and interfaces. The emphasis is on the experimental method. Therefore all chapters start with an introduction of the scientific problem, the theory necessary to understand how the technique works and how to understand the results. Descriptions of real experimental setups, experimental results at different systems are given to show both the strength and the limits of the technique. In a final part the new developments and possible extensions of the techniques are presented. The included techniques provide microscopic as well as macroscopic information. They cover most of the techniques used in surface science.

Near-Field Optics and Surface Plasmon Polaritons Satoshi Kawata 2001-06-20 This up-to-date overview describes in detail the physics of localized surface plasmon polaritons excited near fine metallic structures and the principles of near-field optics and microscopy related to this localized field. It also covers wider fields, from local spectroscopy to atom manipulation.

Judgment and Decision Making Baruch Fischhoff 2013-06-17 Behavioral decision research offers a distinctive approach to understanding and improving decision making. It combines theory and method from multiple disciplines (psychology, economics, statistics, decision theory, management science). It employs both empirical methods, to study how decisions are actually made, and analytical

ones, to study how decisions should be made and how consequential imperfections are. This book brings together key publications, selected to represent the major topics and approaches used in the field. Put in one place, with integrating commentary, it shows the common elements in a research program that represents the scope of the field, while offering depth in each. Together, they provide a vision for what has become a burgeoning field.

Sight Reading Skills Faith Maydwell 2007

Data Practices Evelyn Ruppert 2021-11-02 How EU data practices establish and assign people to categories, and how this matters in enacting--"making up"-- Europe as a population and people. What is "Europe" and who are "Europeans"? Data Practices approaches this contemporary political and theoretical question by treating it as a practical problem of counting. Only through the myriad data practices that make up methods such as censuses can EU member states know their national populations, and this in turn is utilized by the EU to understand the population of Europe. But this volume approaches data practices not simply as reflecting populations but as performative in two senses: they simultaneously enact--that is, "make up"--a European population and, by so doing-- intentionally or otherwise--also contribute to making up a European people. The book develops a conception of data practices to analyze and interpret findings from collaborative ethnographic multisite fieldwork conducted by an interdisciplinary team of social science researchers as part of a five-year project, *Peopling Europe: How Data Make a People*. The book focuses on data practices that involve establishing and assigning people to categories and how this matters in enacting Europe as a population and people. Five core chapters explore key categories of people--usual residents, refugees, homeless people, migrants, and ethnic minorities--and how they come into being through specific data practices such as defining, estimating, recalibrating and inferring. Two additional chapters address two key subject positions that data practices produce and require: the data subject and the statistician subject.

Library of Congress Catalog Library of Congress 1973 A cumulative list of works represented by Library of Congress printed cards.

World Population to 2300 Nations Unies. Division de la population 2004 Based on the 2002 Revision, the Population Division has adopted 2 major innovations for this new set of long-range population projections. For the first time the long-range projections are made at the national level and the time horizon for the projections is extended to 2300.

National Union Catalog 1978

A Standard History of Lake County, Indiana, and the Calumet Region William Frederick Howat 1915

Foundations of the Singer's Art Victor Alexander Fields 1977

Science and Technology of Rubber James E. Mark 2011-07-28 The 3rd edition of The Science and Technology of Rubber provides a broad survey of elastomers with special emphasis on materials with a rubber-like elasticity. As in the 2nd edition, the emphasis remains on a unified treatment of the material; exploring topics from the chemical aspects such as elastomer synthesis and curing, through recent theoretical developments and characterization of equilibrium and dynamic properties, to the final applications of rubber, including tire engineering and manufacturing. Many advances have been made in polymer and elastomers research over the past ten years since the 2nd edition was published. Updated material stresses the continuous relationship between the ongoing research in synthesis, physics, structure and mechanics of rubber technology and industrial applications. Special attention is paid to recent advances in rubber-like elasticity theory and new processing techniques for elastomers. This new edition is comprised of 20% new material, including a new chapter on environmental issues and tire recycling. · Explores new applications of rubber within the tire industry, from new filler materials to “green tires (a tire that has yet to undergo curing and vulcanization). · 30% of the material has been revised from the previous edition with the addition of 20% new material, including a chapter on the environment. · A mixture of theory, experiments, and practical procedures will offer value to students, practitioners, and research & development departments in industry.