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Modern Physics

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Government Reports Annual Index

Noise weapons, sound to produce discomfort, acoustic force, new aesthetic experiences and new ways of mobilizing bodies in rhythm.

The Story of the Heavens

" Concise explanations and descriptions - easily read and readily understood - of what we know of the chain of events and processes that connect the Sun to the Earth, with special emphasis on space weather and Sun-Climate."--Dear Reader.

The Astronomy Book

"A successful blend of astronomical and climate studies with modern scientific and statistical analysis, this history of solar observations is followed by a review of how variations in solar brightness have been measured, both from the ground and space." --New Scientist

The Sun, the Earth, and Near-earth Space

Found in every plant species, the diversity of endophytic micro-organisms can be extremely high within different plant organs and tissue types. In trees, their ecological roles with respect to host tree can vary from latent pathogens or saprophytes to neutral commensalists and mutualists. Given their high diversity, and their bio-active nature, endophytes are currently being associated with a role in tree health against insect herbivores and fungal pathogens, as well as improving tree properties in phytoremediation. Meanwhile there is increasing interest in the potential of some tree endophytes as new sources of drug compounds. The first book on tree endophytes in several years, and containing contributions from leading authors in the field, this book provides an important reference text for professional researchers and advanced students.

Rice Genetics IV

This book is a printed edition of the Special Issue "Dietary Antioxidants and Prevention of Non-Communicable Diseases" that was published in Antioxidants

Why Our Health Matters

The Role of the Sun in Climate Change

The Short History of Science

For the intermediate-level course, the Fifth Edition of this widely used text takes modern physics textbooks to a higher level. With a flexible approach to accommodate the various ways of teaching the course (both one- and two-term tracks are easily covered), the authors recognize the audience and its need for updated coverage, mathematical rigor, and features to build and support student understanding. Continued are the superb explanatory style, the up-to-date topical coverage, and the Web enhancements that gained earlier editions worldwide recognition. Enhancements include a streamlined approach

to nuclear physics, thoroughly revised and updated coverage on particle physics and astrophysics, and a review of the essential Classical Concepts important to students studying Modern Physics.

Heritage Sites of Astronomy and Archaeoastronomy in the Context of the UNESCO World Heritage Convention

This textbook takes you on a journey to the basic concepts of cancer biology. It combines developmental, evolutionary and cell biology perspectives, to then wrap-up with an integrated clinical approach. The book starts with an introductory chapter, looking at cancer in a nut shell. The subsequent chapters are detailed and the idea of cancer as a mass of somatic cells undergoing a micro-evolutionary Darwinian process is explored. Further, the main Hanahan and Weinberg "Hallmarks of Cancer" are revisited. In most chapters, the fundamental experiments that led to key concepts, connecting basic biology and biomedicine are highlighted. In the book's closing section all of these concepts are integrated in clinical studies, where molecular diagnosis as well as the various classical and modern therapeutic strategies are addressed. The book is written in an easy-to-read language, like a one-on-one conversation between the writer and the reader, without compromising the scientific accuracy. Therefore, this book is suited not only for advanced undergraduates and master students but also for patients or curious lay people looking for a further understanding of this shattering disease

Statistical Mechanics

Introduction to Astronomy & Cosmology is a modern undergraduate textbook, combining both the theory behind astronomy with the very latest developments. Written for science students, this book takes a carefully developed scientific approach to this dynamic subject. Every major concept is accompanied by a worked example with end of chapter problems to improve understanding Includes coverage of the very latest developments such as double pulsars and the dark galaxy. Beautifully illustrated in full colour throughout Supplementary web site with many additional full colour images, content, and latest developments.

Bayesian Data Analysis, Third Edition

Bildverarbeitung für die Medizin 2019

Geneticists contribute on a wide range of topics in this book, from classical genetics to the most advanced research on sequencing of the rice genome and functional genomics. They review advances in rice research and discuss molecular

markers, genome organization and gene isolation.

Ocean Noise and Marine Mammals

Explores interaction between music and mathematics including harmony, symmetry, digital music and perception of sound.

Government Reports Announcements & Index

"Chemistry: Atoms First is a peer-reviewed, openly licensed introductory textbook produced through a collaborative publishing partnership between OpenStax and the University of Connecticut and UConn Undergraduate Student Government Association. This title is an adaptation of the OpenStax Chemistry text and covers scope and sequence requirements of the two-semester general chemistry course. Reordered to fit an atoms first approach, this title introduces atomic and molecular structure much earlier than the traditional approach, delaying the introduction of more abstract material so students have time to acclimate to the study of chemistry. Chemistry: Atoms First also provides a basis for understanding the application of quantitative principles to the chemistry that underlies the entire course."--Open Textbook Library.

Molecular and Cell Biology of Cancer

Now in its third edition, this classic book is widely considered the leading text on Bayesian methods, lauded for its accessible, practical approach to analyzing data and solving research problems. Bayesian Data Analysis, Third Edition continues to take an applied approach to analysis using up-to-date Bayesian methods. The authors—all leaders in the statistics community—introduce basic concepts from a data-analytic perspective before presenting advanced methods. Throughout the text, numerous worked examples drawn from real applications and research emphasize the use of Bayesian inference in practice. New to the Third Edition Four new chapters on nonparametric modeling Coverage of weakly informative priors and boundary-avoiding priors Updated discussion of cross-validation and predictive information criteria Improved convergence monitoring and effective sample size calculations for iterative simulation Presentations of Hamiltonian Monte Carlo, variational Bayes, and expectation propagation New and revised software code The book can be used in three different ways. For undergraduate students, it introduces Bayesian inference starting from first principles. For graduate students, the text presents effective current approaches to Bayesian modeling and computation in statistics and related fields. For researchers, it provides an assortment of Bayesian methods in applied statistics. Additional materials, including data sets used in the examples, solutions to selected exercises, and software instructions, are available on the book's web page.

Wooden Eyes

This Thematic Study is a joint venture between ICOMOS, the advisory body to UNESCO on cultural sites, and the International Astronomical Union. It presents an overall vision on astronomical heritage, attempts to identify what constitutes "outstanding universal significance to humankind" in relation to astronomy, and identifies broad issues that could arise in the assessment of cultural properties relating to astronomy. This is the first Thematic Study in any field of science heritage. It is elaborated using examples of properties from around the world, including some already on the World Heritage List or national Tentative Lists. The subject matter ranges from early prehistory to modern astrophysics and space heritage, and also prominently includes dark sky issues and modern observatory sites. An e-version of the Thematic Study was published in June 2010 in time to be presented to the 2010 meeting of UNESCO's World Heritage Committee, where it was duly approved. It has been circulated officially by the WHC to all of UNESCO's National Commissions. This full-colour paperback edition with some updates, and reformatted to new ICOMOS standards, was published in 2011 and is now offered for public sale.

Molecular Evolution

Ginzburg, "the preeminent Italian historian of his generation [who] helped create the genre of microhistory" ("New York Times"), ruminates on how perspective affects what we see and understand. 26 illustrations.

Epistemology of the Cell

Probability Theory and Stochastic Processes with Applications (Second Edition)

This introduction to Atomic and Molecular Physics explains how our present model of atoms and molecules has been developed during the last two centuries by many experimental discoveries and from the theoretical side by the introduction of quantum physics to the adequate description of micro-particles. It illustrates the wave model of particles by many examples and shows the limits of classical description. The interaction of electromagnetic radiation with atoms and molecules and its potential for spectroscopy is outlined in more detail and in particular lasers as modern spectroscopic tools are discussed more thoroughly. Many examples and problems with solutions should induce the reader to an intense active cooperation.

Dietary Antioxidants and Prevention of Non-Communicable Diseases

Discusses what has gone wrong with the American way of health to create the crisis in which the author feels the U.S. is embroiled, and offers a solution that calls for a completely new culture of health and medicine.

Maximum Entropy and Bayesian Methods

Here's quick access to more than 490,000 titles published from 1970 to 1984 arranged in Dewey sequence with sections for Adult and Juvenile Fiction. Author and Title indexes are included, and a Subject Guide correlates primary subjects with Dewey and LC classification numbers. These cumulative records are available in three separate sets.

The British National Bibliography

For the 119 species of marine mammals, as well as for some other aquatic animals, sound is the primary means of learning about the environment and of communicating, navigating, and foraging. The possibility that human-generated noise could harm marine mammals or significantly interfere with their normal activities is an issue of increasing concern. Noise and its potential impacts have been regulated since the passage of the Marine Mammal Protection Act of 1972. Public awareness of the issue escalated in 1990s when researchers began using high-intensity sound to measure ocean climate changes. More recently, the stranding of beaked whales in proximity to Navy sonar use has again put the issue in the spotlight. Ocean Noise and Marine Mammals reviews sources of noise in the ocean environment, what is known of the responses of marine mammals to acoustic disturbance, and what models exist for describing ocean noise and marine mammal responses. Recommendations are made for future data gathering efforts, studies of marine mammal behavior and physiology, and modeling efforts necessary to determine what the long- and short-term impacts of ocean noise on marine mammals.

Music: A Mathematical Offering

This volume provides a survey of current research problems and results in humanitarian operations research. Additionally, it discusses existing applications of humanitarian operations research, and considers new research efforts that clearly extend existing research and applications. The book is divided into three sections that provide an overview of the subject, a look at the theory, and an examination of applications. The overview section presents chapters on modeling approaches and metrics to evaluate nonprofit operations; chief findings of fieldwork research in disaster response logistics; the use of cash as a form of relief; and measuring markets that supply cash-based humanitarian interventions. The theory section includes chapters that examine the partner proliferation problem in disaster response networks; a case study of humanitarian logistics that examines how humanitarian culture informs change adoption; and a look at the current state of the art for information visibility in humanitarian operations. Finally, the application section focuses on blood products, vaccines, and

food assistance, with individual chapters on efficient inventorying and distribution of blood products during disasters; a detailed look at modeling in the context of the vaccine supply chain; a framework for achieving equity, effectiveness, and efficiency in food bank operations; and a spatio-temporal vulnerabili ty assessment of the resilience of a population affected by sudden lack of food.

Atoms, Molecules and Photons

Fruit flies are "little people with wings" goes the saying in the scientific community, ever since the completion of the Human Genome Project and its revelations about the similarity amongst the genomes of different organisms. It is humbling that most signalling pathways which "define" humans are conserved in Drosophila, the common fruit fly. Feed a fruit fly caffeine and it has trouble falling asleep; feed it antihistamines and it cannot stay awake. A C. elegans worm placed on the antidepressant flouxetine has increased serotonin levels in its tiny brain. Yeast treated with chemotherapeutics stop their cell division. Removal of a single gene from a mouse or zebrafish can cause the animals to develop Alzheimer's disease or heart disease. These organisms are utilized as surrogates to investigate the function and design of complex human biological systems. Advances in bioinformatics, proteomics, automation technologies and their application to model organism systems now occur on an industrial scale. The integration of model systems into the drug discovery process, the speed of the tools, and the in vivo validation data that these models can provide, will clearly help definition of disease biology and high-quality target validation. Enhanced target selection will lead to the more efficacious and less toxic therapeutic compounds of the future. Leading experts in the field provide detailed accounts of model organism research that have impacted on specific therapeutic areas and they examine state-of-the-art applications of model systems, describing real life applications and their possible impact in the future. This book will be of interest to geneticists, bioinformaticians, pharmacologists, molecular biologists and people working in the pharmaceutical industry, particularly genomics.

Chemistry

In den letzten Jahren hat sich der Workshop "Bildverarbeitung für die Medizin" durch erfolgreiche Veranstaltungen etabliert. Ziel ist auch 2019 wieder die Darstellung aktueller Forschungsergebnisse und die Vertiefung der Gespräche zwischen Wissenschaftlern, Industrie und Anwendern. Die Beiträge dieses Bandes - einige davon in englischer Sprache - umfassen alle Bereiche der medizinischen Bildverarbeitung, insbesondere Bildgebung und -akquisition, Maschinelles Lernen, Bildsegmentierung und Bildanalyse, Visualisierung und Animation, Zeitreihenanalyse, Computerunterstützte Diagnose, Biomechanische Modellierung, Validierung und Qualitätssicherung, Bildverarbeitung in der Telemedizin u.v.m.

Survey of the State of the Art in Human Language Technology

Statistical Mechanics discusses the fundamental concepts involved in understanding the physical properties of matter in bulk on the basis of the dynamical behavior of its microscopic constituents. The book emphasizes the equilibrium states of physical systems. The text first details the statistical basis of thermodynamics, and then proceeds to discussing the elements of ensemble theory. The next two chapters cover the canonical and grand canonical ensemble. Chapter 5 deals with the formulation of quantum statistics, while Chapter 6 talks about the theory of simple gases. Chapters 7 and 8 examine the ideal Bose and Fermi systems. In the next three chapters, the book covers the statistical mechanics of interacting systems, which includes the method of cluster expansions, pseudopotentials, and quantized fields. Chapter 12 discusses the theory of phase transitions, while Chapter 13 discusses fluctuations. The book will be of great use to researchers and practitioners from wide array of disciplines, such as physics, chemistry, and engineering.

Model Organisms in Drug Discovery

"The Short History of Science - or the long path to the union of metaphysics and empiricism" offers a guided tour of the path of development of natural sciences from antique philosophical concepts to the precise empirical theories in modern physics and cosmology, and their relation to a scientific picture of physical reality. Arising out of the author's deep-probing work on the Dynamic Universe theory, the book discusses the possibility of uniting present theories by restructuring the empirically driven solutions at a deeper metaphysical level. In addition to a study of the development path itself, the book presents a biographical gallery of more than a hundred scientists who contributed majorly to scientific development as well as a long list of references with links to original texts by the pioneers. The book is not only a source of information - but also challenges the reader to consider for himself this scientific evolution, the basis of prevailing theories and the picture of reality. "The Short History of Science - or the long path to the union of metaphysics and empiricism" provides a tool and a source of inspiration for both teachers and students of natural sciences as well as for individuals willing to deepen their understanding of the universe we live in. In the 3rd complemented edition, Chapters 2-4 have been rewritten for easier reading.

Computational Paralinguistics

This book is meant to provide a window on the rapidly growing body of theoretical studies of condensed phase chemistry. A brief perusal of physical chemistry journals in the early to mid 1980's will find a large number of theor- ical papers devoted to 3-body gas phase chemical reaction dynamics. The recent history of theoretical chemistry has seen an explosion of progress in the devel- ment of methods to study similar properties of systems with Avogadro's number of particles. While

the physical properties of condensed phase systems have long been principle targets of statistical mechanics, microscopic dynamic theories that start from detailed interaction potentials and build to first principles predictions of properties are now maturing at an extraordinary rate. The techniques in use range from classical studies of new Generalized Langevin Equations, semicl- sical studies for non-adiabatic chemical reactions in condensed phase, mixed quantum classical studies of biological systems, to fully quantum studies of m- els of condensed phase environments. These techniques have become sufficiently sophisticated, that theoretical prediction of behavior in actual condensed phase environments is now possible. and in some cases, theory is driving development in experiment. The authors and chapters in this book have been chosen to represent a wide variety in the current approaches to the theoretical chemistry of condensed phase systems. I have attempted a number of groupings of the chapters, but the - versity of the work always seems to frustrate entirely consistent grouping.

Robust Monte Carlo Methods for Light Transport Simulation

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.

Complete Course in Astrobiology

This volume has its origin in the Seventeenth International Workshop on Maximum Entropy and Bayesian Methods, MAXENT 97. The workshop was held at Boise State University in Boise, Idaho, on August 4 -8, 1997. As in the past, the purpose of the workshop was to bring together researchers in different fields to present papers on applications of Bayesian methods (these include maximum entropy) in science, engineering, medicine, economics, and many other disciplines. Thanks to significant theoretical advances and the personal computer, much progress has been made since our first Workshop in 1981. As

indicated by several papers in these proceedings, the subject has matured to a stage in which computational algorithms are the objects of interest, the thrust being on feasibility, efficiency and innovation. Though applications are proliferating at a staggering rate, some in areas that hardly existed a decade ago, it is pleasing that due attention is still being paid to foundations of the subject. The following list of descriptors, applicable to papers in this volume, gives a sense of its contents: deconvolution, inverse problems, instrument (point-spread) function, model comparison, multi sensor data fusion, image processing, tomography, reconstruction, deformable models, pattern recognition, classification and group analysis, segmentation/edge detection, brain shape, marginalization, algorithms, complexity, Ockham's razor as an inference tool, foundations of probability theory, symmetry, history of probability theory and computability. MAXENT 97 and these proceedings could not have been brought to final form without the support and help of a number of people.

Theoretical Methods in Condensed Phase Chemistry

This collection of intriguing stories offers profound insights into medical history. It highlights what all health professionals should know about the career path they have chosen. Each chapter presents a number of fascinating tales of legendary medical innovators, diseases that changed history, insightful clinical sayings, famous persons and their illnesses, and epic blunders made by physicians and scientists. The book relates the stories in history to what clinicians do in practice today and is ideal reading for physicians, residents, medical students and all clinicians.

Shaping Written Knowledge

This up-to-date resource is based on lectures developed by experts in the relevant fields and carefully edited by the leading astrobiologists within the European community. Aimed at graduate students in physics, astronomy and biology and their lecturers, the text begins with a general introduction to astrobiology, followed by sections on basic prebiotic chemistry, extremophiles, and habitability in our solar system and beyond. A discussion of astrodynamics leads to a look at experimental facilities and instrumentation for space experiments and, ultimately, astrobiology missions, backed in each case by the latest research results from this fascinating field. Includes a CD-ROM with additional course material.

American Book Publishing Record Cumulative, 1970-1974

This second edition has a unique approach that provides a broad and wide introduction into the fascinating area of probability theory. It starts on a fast track with the treatment of probability theory and stochastic processes by providing short proofs. The last chapter is unique as it features a wide range of applications in other fields like Vlasov dynamics of fluids, statistics of circular data, singular continuous random variables, Diophantine equations, percolation theory, random

Schrödinger operators, spectral graph theory, integral geometry, computer vision, and processes with high risk.Many of these areas are under active investigation and this volume is highly suited for ambitious undergraduate students, graduate students and researchers.

Sonic Warfare

White Coat Tales

This book presents the methods, tools and techniques that arecurrently being used to recognise (automatically) the affect,emotion, personality and everything else beyond linguistics('paralinguistics') expressed by or embedded in humanspeech and language. It is the first book to provide such a systematic survey ofparalinguistics in speech and language processing. The technologydescribed has evolved mainly from automatic speech and speakerrecognition and processing, but also takes into account recentdevelopments within speech signal processing, machine intelligenceand data mining. Moreover, the book offers a hands-on approach by integratingactual data sets, software, and open-source utilities which willmake the book invaluable as a teaching tool and similarly usefulfor those professionals already in the field. Key features: Provides an integrated presentation of basic research (inphonetics/linguistics and humanities) with state-of-the-artengineering approaches for speech signal processing and machineintelligence. Explains the history and state of the art of all of thesub-fields which contribute to the topic of computationalparalinguistics. C overs the signal processing and machine learning aspects ofthe actual computational modelling of emotion and personality andexplains the detection process from corpus collection to featureextraction and from model testing to system integration. Details aspects of real-world system integration includingdistribution, weakly supervised learning and confidencemeasures. Outlines machine learning approaches including static, dynamicand context-sensitive algorithms for classification andregression. Includes a tutorial on freely available toolkits, such as theopen-source 'openEAR' toolkit for emotion and affectrecognition co-developed by one of the authors, and a listing ofstandard databases and feature sets used in the field to allow forimmediate experimentation enabling the reader to build an emotiondetection model on an existing corpus.

Endophytes of Forest Trees

"Honorable mention – Biomedicine and Neuroscience, 2011 Prose Awards" An examination of how the cell should be described in order to effectively process biological data "The fruitful pursuit of biological knowledge requires one to take Einstein's admonition [on science without epistemology] as a practical demand for scientific research, to recognize Waddington's characterization of the subject matter of biology, and to embrace Wiener's conception of the form of

biological knowledge in response to its subject matter. It is from this vantage point that we consider the epistemology of the cell." —from the Preface In the era of high biological data throughput, biomedical engineers need a more systematic knowledge of the cell in order to perform more effective data handling. Epistemology of the Cell is the first authored book to break down this knowledge. This text examines the place of biological knowledge within the framework of science as a whole and addresses issues focused on the specific nature of biology, how biology is studied, and how biological knowledge is translated into applications, in particular with regard to medicine. The book opens with a general discussion of the historical development of human understanding of scientific knowledge, the scientific method, and the manner in which scientific knowledge is represented in mathematics. The narrative then gets specific for biology, focusing on knowledge of the cell, the basic unit of life. The salient point is the analogy between a systems-based analysis of factory regulation and the regulation of the cell. Each chapter represents a key topic of current interest, including: Causality and randomness Translational science Stochastic validation: classification Stochastic validation: networks Model-based experimentation in biology Epistemology of the Cell is written for biomedical researchers whose interests include bioinformatics, biological modeling, biostatistics, and biological signal processing.

Introduction to Astronomy and Cosmology

The forms taken by scientific writing help to determine the very nature of science itself. In this closely reasoned study, Charles Bazerman views the changing forms of scientific writing as solutions to rhetorical problems faced by scientists arguing for their findings. Examining such works as the early Philosophical Transactions and Newton's optical writings as well as Physical Review, Bazerman views the changing forms of scientific writing as solutions to rhetorical problems faced by scientists. The rhetoric of science is, Bazerman demonstrates, an embedded part of scientific activity that interacts with other parts of scientific activity, including social structure and empirical experience. This book presents a comprehensive historical account of the rise and development of the genre, and views these forms in relation to empirical experience.

Advances in Managing Humanitarian Operations

Languages, in all their forms, are the more efficient and natural means for people to communicate. Enormous quantities of information are produced, distributed and consumed using languages. Human language technology's main purpose is to allow the use of automatic systems and tools to assist humans in producing and accessing information, to improve communication between humans, and to assist humans in communicating with machines. This book, sponsored by the Directorate General XIII of the European Union and the Information Science and Engineering Directorate of the National Science Foundation, USA, offers the first comprehensive overview of the human language technology field.

Plasma Physics Index

Explore the world of astronomy with key quotes and bold graphics to illustrate over 100 of the universe's biggest ideas. The Astronomy Book is an exciting voyage of discovery through the cosmos. Venture from ancient speculations about the nature of the universe, to the mind-boggling theories of recent science, including those of Albert Einstein and Stephen Hawking. Learn about the incredible histories of Halley's Comet, the Hubble telescope, and NASA's modern-day trailblazing, as well as the discoveries of famous figures including Ptolemy, Isaac Newton, Walter Adams, Carl Sagan, and Alan Stern. The Astronomy Book, part of DK's popular "Big Ideas" series, is is the perfect introduction to our ideas about space, time, and the physics of the cosmos.

ROMANCE ACTION & ADVENTURE MYSTERY & THRILLER BIOGRAPHIES & HISTORY CHILDREN'S YOUNG ADULT FANTASY HISTORICAL FICTION HORROR LITERARY FICTION NON-FICTION SCIENCE FICTION