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Solar-geophysical Data-

Practical Meteorology-Roland Stull 2018 A quantitative introduction to atmospheric science for students and professionals who want to understand and apply basic meteorological concepts but who are not ready for calculus.

Lange's Handbook of Chemistry-John Aurie Dean 1992 This revised edition of 'Lange's Handbook of Chemistry' provides a vast compilation of facts, data, tabular material and experimental findings in every area of chemistry.

Biomaterials in Orthopaedics and Bone Regeneration-Preetkanwal Singh Bains 2019-09-09 This book focuses on the recent advances in the field of orthopaedic biomaterials, with a particular emphasis on their design and fabrication. Biomimetic materials, having similar properties and functions to that of the natural tissue, are becoming a popular choice for making customized orthopaedic implants and bone scaffolds. The acceptability of these materials in the human body depends on the right balance between their mechanical and biological properties. This book provides a comprehensive overview of the state-of-the-art research in this rapidly evolving field. The chapters cover different aspects of multi-functional biomaterials design, and cutting-edge methods for the synthesis and processing of these materials. Advanced manufacturing techniques, like additive manufacturing, used for developing new biomimetic materials are highlighted in the book. This book is a valuable reference for students and researchers interested in biomaterials for orthopaedic applications.

The Papers of John Peabody Harrington in the Smithsonian Institution, 1907-1957: Native American history, language, and culture of the Southwest-John Peabody Harrington 1986

Artificial Intelligence Methods in Intelligent Algorithms-Radek Silhavy 2019-05-04 This book discusses the current trends in and applications of artificial intelligence research in intelligent systems. Including the proceedings of the Artificial Intelligence Methods in Intelligent Algorithms Section of the 8th Computer Science On-line Conference 2019 (CSOC 2019), held in April 2019, it features papers on neural networks algorithms, optimisation algorithms and real-world issues related to the application of artificial methods.

Neutrinos in Particle Physics, Astronomy and Cosmology-Zhizhong Xing 2011-06-08 "Neutrinos in Particle Physics, Astronomy and Cosmology" provides a comprehensive and up-to-date introduction to neutrino physics, neutrino astronomy and neutrino cosmology. The intrinsic properties and fundamental interactions of neutrinos are described, as is the phenomenology of lepton flavor mixing, seesaw mechanisms and neutrino oscillations. The cosmic neutrino background, stellar neutrinos, supernova neutrinos and ultrahigh-energy cosmic neutrinos, together with the cosmological matter-antimatter asymmetry and other roles of massive neutrinos in cosmology, are discussed in detail. This book is intended for researchers and graduate students in the fields of particle physics, particle astrophysics and cosmology. Dr. Zhizhong Xing is a professor at the Institute of High Energy Physics, Chinese Academy of Sciences, China; Dr. Shun Zhou is currently a postdoctoral fellow at the Max Planck Institute for Physics, Germany.

The Physics of Neutrinos-Vernon Barger 2012-09-30 The physics of neutrinos--uncharged elementary particles that are key to helping us better understand the nature of our universe--is one of the most exciting frontiers of modern science. This book provides a comprehensive overview of neutrino physics today and explores promising new avenues of inquiry that could lead to future breakthroughs. The Physics of Neutrinos begins with a concise history of the field and a tutorial on the fundamental properties of neutrinos, and goes on to discuss how the three neutrino types interchange identities as they propagate from their sources to detectors. The book shows how studies of neutrinos produced by such phenomena as cosmic rays in the atmosphere and nuclear reactions in the solar interior provide striking evidence that neutrinos have mass, and it traces our astounding progress in deciphering the baffling experimental findings involving neutrinos. The discovery of neutrino mass offers the first indication of a new kind of physics that goes beyond the Standard Model of elementary particles, and this book considers the unanticipated patterns in the masses and mixings of neutrinos in the framework of proposed new theoretical models. The Physics of Neutrinos maps out the ambitious future facilities and experiments that will advance our knowledge of neutrinos, and explains why the way forward in solving the outstanding questions in neutrino science will require the collective efforts of particle physics, nuclear physics, astrophysics, and cosmology.

Statistical Genomics: Methods and Protocols-Ewy Mathe 2018-04-07 This volume expands on statistical analysis of genomic data by discussing cross-cutting groundwork material, public data repositories, common applications, and representative tools for operating on genomic data. Statistical Genomics: Methods and Protocols is divided into four sections. The first section discusses overview material and resources that can be applied across topics mentioned throughout the book. The second section covers prominent public repositories for genomic data. The third section presents several different biological applications of statistical genomics, and the fourth section highlights software tools that can be used to facilitate ad-hoc analysis and data integration. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, step-by-step, readily reproducible analysis protocols, and tips on troubleshooting and avoiding known pitfalls. Through and practical, Statistical Genomics: Methods and Protocols, explores a range of both applications and tools and is ideal for anyone interested in the statistical analysis of genomic data.

Zinc in Soils and Plants-A.D. Robson 2012-12-06 Proceedings of the International Symposium on 'Zinc in Soils and Plants', held at The University of Western Australia, Perth, Western Australia, 27--28 September 1993

Efficient Usage of Adabas Replication-Dieter W. Storr 2011-11-11 In today's IT organization replication becomes more and more an essential technology. This makes Software AG's Event Replicator for Adabas an important part of your data processing. Setting the right parameters and establishing the best network communication, as well as selecting efficient target components, is essential for successfully implementing replication. This book provides comprehensive information and unique best-practice experience in the field of Event Replicator for Adabas. It also includes sample codes and configurations making your start very easy. It describes all components necessary to replicate Adabas data successfully, efficiently and securely from the mainframe to Adabas and non-Adabas target databases - located on the mainframe or any open system. The author's comprehensive experience comes from Adabas replication to Windows, primarily on the subscription database and the Reptor engine. This can easily be applied to UNIX and Linux systems. By also providing practical solutions to avoid common problems, the author's experience with mass data replication lets your project become a success story.

Astrophysical Data-Kenneth R. Lang 2012-12-06 This volume of Astrophysical Data deals with Planets and Stars; a second volume, Part II, will give data for Galaxies and the Universe. They both provide basic data for use by all scientists, from the amateur astronomer to the professional astrophysicist. In this first volume, we not only provide physical parameters of planets, stars and their environment, but we also provide the celestial coordinates required to observe them. Here we use c.g.s. units, for they are the most commonly used in astronomy and astrophysics; but our volume begins with astronomical and physical constants and the conversion factors needed for other units. The next section concerns the planets and their satellites; it singles out the Earth and Moon for special treatment. Spacecraft rendezvous with the planets and satellites have led to improved values for their atmospheric compositions, orbital parameters, magnetic fields, masses, radii, rotation periods, and surface pressures and temperatures. This section also contains data for the asteroids, comets and their debris. We then discuss everyday stars, beginning with the Sun, and continuing with basic stellar data, the brightest stars and nearby stars. Special categories of stars, such as the Wolf-Rayet stars, magnetic stars, flare stars, and RS CVn binary stars, are included.

TiO₂ Nanotube Arrays-Craig A. Grimes 2009-08-11 TiO₂ Nanotube Arrays: Synthesis, Properties, and Applications is the first book to provide an overview of this rapidly growing field. Vertically oriented, highly ordered TiO₂ nanotube arrays are unique and easily fabricated materials with an architecture that demonstrates remarkable charge transfer as well as photocatalytic properties. This volume includes an introduction to TiO₂ nanotube arrays, as well as a description of the material properties and distillation of the current research. Applications considered include gas sensing, heterojunction solar cells, water photoelectrolysis, photocatalytic CO₂ reduction, as well as several biomedical applications. Written by leading researchers in the field, TiO₂ Nanotube Arrays: Synthesis, Properties, and Applications is a valuable reference for chemists, materials scientists and engineers involved with renewable energy sources, biomedical engineering, and catalysis, to cite but a few examples.

Collider Physics Within the Standard Model-Guido Altarelli 2020-10-08 With this graduate-level primer, the principles of the standard model of particle physics receive a particular skillful, personal and enduring exposition by one of the great contributors to the field. In 2013 the late Prof. Altarelli wrote: The discovery of

the Higgs boson and the non-observation of new particles or exotic phenomena have made a big step towards completing the experimental confirmation of the standard model of fundamental particle interactions. It is thus a good moment for me to collect, update and improve my graduate lecture notes on quantum chromodynamics and the theory of electroweak interactions, with main focus on collider physics. I hope that these lectures can provide an introduction to the subject for the interested reader, assumed to be already familiar with quantum field theory and some basic facts in elementary particle physics as taught in undergraduate courses. This work was published by Saint Philip Street Press pursuant to a Creative Commons license permitting commercial use. All rights not granted by the work's license are retained by the author or authors.

Tidal Dynamics : Coastal Flooding and Cycles of Gravitational Force-Fergus J. Wood 1986-02-03 Rev., expanded ed. of: The strategic role of perigean spring tides in nautical history and North American coastal flooding, 1635-1976. 1978.

Neutrino Physics-Kai Zuber 2003-11-14 Neutrino physics remains one of the most exciting fields of fundamental physics today. The neutrino's position at the intersection of particle physics, astrophysics, and nuclear physics ensures continuing interest in the subject. Major activities at accelerators like Fermilab, KEK and CERN, in addition to underground facilities like Gran Sasso, Kamioka and Sudbury, continue to enhance our understanding of the origins and properties of neutrinos, and their implications for the Standard Model and cosmology. Neutrino Physics provides an up to date and comprehensive introduction to the subject as well as an invaluable resource for researchers in physics and astrophysics. Starting with a brief historical overview the author proceeds to review fundamental neutrino properties, the neutrino mass question, and their place within and beyond the Standard Model. The final chapters examine the role of neutrinos in modern astroparticle physics, cosmology and the dark matter problem. The book concludes with a summary of the current status of neutrino physics and the implications of recent results. Written to be accessible to readers from different backgrounds in nuclear, particle or astrophysics and with a detailed reference list, this title will be essential for any researcher or advanced student who needs to understand modern neutrino physics.

ICOM2015 Book of Abstracts-Мирослав Драмићанин 2016-03-24

Cosmoparticle Physics-Maxim Yu Khlopov 1999 Since the 1980s the cross-disciplinary, multidimensional field of links between cosmology and particle physics has been widely recognised by theorists, studying cosmology, particle and nuclear physics, gravity, as well as by astrophysicists, astronomers, space physicists, experimental particle and nuclear physicists, mathematicians and engineers. The relationship between cosmology and particle physics is now one of the important topics of discussion at any scientific meeting both on astrophysics and high energy physics. Cosmoparticle physics is the result of the mutual relationship between cosmology and particle physics in their search for physical mechanisms of inflation, baryosynthesis, nonbaryonic dark matter, and for fundamental unity of the natural forces underlying them. The set of nontrivial links between cosmological consequences of particle models and the astrophysical data on matter and radiation in the modern universe maintains cosmoarcheology, testing self-consistently particular predictions of particle models on the base of cosmological scenarios, following from them. Complex analysis of all the indirect cosmological, astrophysical and microphysical phenomena makes cosmoparticle physics the science of the world and renders quantitatively definite the correspondence between its micro- and macroscopic structure. This book outlines the principal ideas of the modern particle theory and cosmology, their mutual relationship and the nontrivial correspondence of their physical and astrophysical effects.

Circular Dichroism-Nina Berova 2000-05-03 Multidisciplinary coverage of circular dichroism's principles, applications, and latest advances The four years since the publication of the first edition of Circular Dichroism: Principles and Applications have seen a rapid expansion of the field, including new applications, improved understanding of principles, and a growing interest in circular dichroism (CD) among researchers from a wide variety of disciplines. The Second Edition keeps pace with this phenomenal growth with up-to-date contributions from dozens of the world's leading researchers and practitioners in chirality, chemistry, biochemistry, and analytical chemistry, as well as vibrational and luminescence spectroscopy. With nine entirely new chapters and substantial updates of existing material, Circular Dichroism, Second Edition provides important insight into the immense potential of CD and bridges the gap between theory and practice. The book begins with coverage of historical developments and moves quickly to fascinating reports on recent advances and emerging new fields in CD. New and updated coverage includes: * VOA theory * Solid-state CD applications * Fast time-resolved CD measurements * A model illustrating how polymers amplify chirality * Induced CD of polymers * CD of nucleic acids: nonclassical conformations and modified oligonucleotides * DNA-drug and DNA-protein interactions * Applications of CD to important pharmaceutical compounds Featuring an increased emphasis on biological molecules and extensive applications to organic stereochemistry and biopolymers, Circular Dichroism: Principles and Applications, Second Edition will prove a valuable and frequently consulted reference for organic chemists, biochemists, and medicinal and pharmaceutical chemists.

Meteorology Today for Scientists and Engineers-Roland B. Stull 1995-01-01

The Standard Model and Beyond-Paul Langacker 2017-06-26 This new edition of The Standard Model and Beyond presents an advanced introduction to the physics and formalism of the standard model and other non-abelian gauge theories. It provides a solid background for understanding supersymmetry, string theory, extra dimensions, dynamical symmetry breaking, and cosmology. In addition to updating all of the experimental and phenomenological results from the first edition, it contains a new chapter on collider physics; expanded discussions of Higgs, neutrino, and dark matter physics; and many new problems. The book first reviews calculational techniques in field theory and the status of quantum electrodynamics. It then focuses on global and local symmetries and the construction of non-abelian gauge theories. The structure and tests of quantum chromodynamics, collider physics, the electroweak interactions and theory, and the physics of neutrino mass and mixing are thoroughly explored. The final chapter discusses the motivations for extending the standard model and examines supersymmetry, extended gauge groups, and grand unification. Thoroughly covering gauge field theories, symmetries, and topics beyond the standard model, this text equips readers with the tools to understand the structure and phenomenological consequences of the standard model, to construct extensions, and to perform calculations at tree level. It establishes the necessary background for readers to carry out more advanced research in particle physics. Supplementary materials are provided on the author's website and a solutions manual is available for qualifying instructors.

Trends and Applications in Software Engineering-Jezreel Mejia 2017-10-18 This book includes a selection of papers from the 2017 International Conference on Software Process Improvement (CIMPS'17), presenting trends and applications in software engineering. Held from 18th to 20th October 2017 in Zacatecas, Mexico, the conference provided a global forum for researchers and practitioners to present and discuss the latest innovations, trends, results, experiences and concerns in various areas of software engineering, including but not limited to software processes, security in information and communication technology, and big data. The main topics covered are organizational models, standards and methodologies, software process improvement, knowledge management, software systems, applications and tools, information and communication technologies and processes in non-software domains (mining, automotive, aerospace, business, health care, manufacturing, etc.) with a demonstrated relationship to software engineering challenges.

Linear Dichroism and Circular Dichroism-Bengt Nordén 2010-09-02 This book provides an introduction to optical anisotropy (linear dichroism, LD) and optical activity (circular dichroism, CD) as techniques for the study of structures and interactions of molecules in solution. The book covers the use of these techniques for both small and large molecular systems with particular emphasis being placed on proteins and nucleic acids. CD is a well-established technique and this book aims to explain how it can be used simply and effectively for new entrants to the field as well as covering more advanced techniques for experts. LD is often seen as a rather exotic method intended only for experienced spectroscopists. This book demonstrates that it is an approach with real utility that may be used by both students and scientists from graduate level onwards to give simple answers, which are not available from any other technique, to structural and kinetic questions. Much of the emphasis is on flow orientation of samples in solution phase. The book first describes the techniques and the information they can provide; it then goes on to give specific details on how to actually implement them, including a wide range of examples showing how LD and CD can help with * protein and nucleic acid secondary structure elucidation; * analysis of the formation and rearrangements of fibrous proteins and membrane proteins; * identification of the absolute configuration of small molecules; * determination of the orientation of small molecules in anisotropic media; * assignment of transition moment polarizations; * investigation of binding strengths and geometries of ligand-macromolecule complexes; * 3-D structure determination from LD, molecular replacement and MD modeling. The advantages of combined LD/CD studies are also outlined with examples of DNA/drug complexes and protein insertion into membranes. Taken together the book represents a comprehensive text on the theory and application of LD and CD in the chemical and biological sciences.

Diabetic Nephropathy-Luigi Gnudi 2020-11-22 This book provides a toolkit of novel research approaches for investigators to study diabetic nephropathy, including critical experimental models from the fly to the fish, cells in culture, and in vivo mammalian approaches. The collection also explores powerful techniques to image the kidney, such as traditional histological techniques as well as electron, confocal, and two-photon microscopy, pathophysiology of the diabetic kidney, and gene editing and regenerative medicine. Written for the highly successful Methods in Molecular Biology series, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and practical, Diabetic Nephropathy: Methods and Protocols seeks to foster new research directions and inspire ideas to enhance our understanding of diabetic nephropathy and to develop treatments for this condition.

International Critical Tables of Numerical Data, Physics, Chemistry and Technology, Index, Volumes I to VII- 1930

The Physics of Liquid Crystals-P. G. de Gennes 1993 The original edition was immediately recognized as a classic of condensed matter physics. This new edition covers the main properties of nematics, cholesterics, and smectics and columnar phases, particularly the symmetry and the mechanical and optical characteristics of each phase. The latter includes some applications to display systems. The emphasis on order-of-magnitude considerations should make it accessible to researchers and graduate students alike.

Winter Trees-Sylvia Plath 2016-11-15

Four-Manifold Theory-CAMERON AUTOR GORDON 1984 These are the proceedings of the Summer Research Conference on 4-manifolds held at Durham, New Hampshire, July 1982, under the auspices of the American Mathematical Society and National Science Foundation. The conference was highlighted by the breakthroughs of Michael Freedman and S. K. Donaldson and by Frank Quinn's completion at the conference of the proof of the annulus conjecture. (We commend the AMS committee, particularly Julius Shaneson, who had the foresight in Spring 1981 to choose the subject, 4-manifolds, in which such remarkable activity was imminent.) Freedman and several others spoke on his work; some of their talks are represented by papers in this volume. Donaldson and Clifford H. Taubes gave surveys of their work on gauge theory and 4-manifolds and their papers are also included herein. There were a variety of other lectures, including Quinn's surprise, and a couple of problem sessions which led to the problem list. A background of basic differential topology is adequate for potential readers.

Axiomatic Method and Category Theory-Andrei Rodin 2013-10-14 This volume explores the many different meanings of the notion of the axiomatic method, offering an insightful historical and philosophical discussion about how these notions changed over the millennia. The author, a well-known philosopher and historian of mathematics, first examines Euclid, who is considered the father of the axiomatic method, before moving onto Hilbert and Lawvere. He then presents a deep textual analysis of each writer and describes how their ideas are different and even how their ideas progressed over time. Next, the book explores category theory and details how it has revolutionized the notion of the axiomatic method. It considers the question of identity/equality in mathematics as well as examines the received theories of mathematical structuralism. In the end, Rodin presents a hypothetical New Axiomatic Method, which establishes closer relationships between mathematics and physics. Lawvere's axiomatization of topos theory and Voevodsky's axiomatization of higher homotopy theory exemplify a new way of axiomatic theory building, which goes beyond the classical Hilbert-style Axiomatic Method. The new notion of Axiomatic Method that emerges in categorical logic opens new possibilities for using this method in physics and other natural sciences. This volume offers readers a coherent look at the past, present and anticipated future of the Axiomatic Method.

Angus Legends-Tom Burke 2005

Constitutive Laws for Engineering Materials, with Emphasis on Geologic Materials-Chandrakant S. Desai 1984

Integrated Pest Management-Rajinder Peshin 2009-03-10 Integrated Pest Management - Dissemination and Impact, Volume 2 is a sequel to Integrated Pest Management - Innovation-Development-Process, Volume 1. The book focuses on the IPM systems in the developed countries of North America, Europe and Australia, and the developing countries of Asia, Latin America and Africa. One of the major impediments in the dissemination and adoption of the IPM innovation is the complexity of the technology and reaching the vast population of farmers especially in the developing countries. The IPM-innovation development process is incomplete without the diffusion and adoption of IPM methods by the end users, and through its consequences. In spite of all the efforts in the developed and developing countries, the adoption of IPM is still low with few exceptions. The book covers the underlying concepts and methodologies of the diffusion of innovation theory and the program evaluation; and reviews the progress and impact of IPM programs implemented in the industrialized, the green revolution and the subsistence agricultural systems of the world. Forty-four experts from entomology, plant pathology, environmental science, agronomy, anthropology, economics and extension education from Africa, Asia, Australia, Europe, North America and South America have discussed impact of IPM with an interdisciplinary perspective. Each one of the experts is an authority in his or her field of expertise. The researchers, farmers' education, supporting policies of the governments and market forces are the elements of the IPM innovation system to achieve wider adoption of IPM strategy in agriculture.

Individuals, Institutions, and Markets-C. Mantzavinos 2004-05-10 This book shows how the institutional framework of a society emerges and how markets within institutions work.

Calculations for A-level Chemistry-E. N. Ramsden 1982-01-01

The S-100 Bus Handbook-Dave Bursky 1980-01-01 Specifically Discusses the S-100 Bus System on the Computer & its Organization & Interrelations. Contains Micro Hardware Fundamentals, Schematic Drawings & Operating Details.

Statistical Theory and Methodology in Science and Engineering-Kenneth Alexander Brownlee 1984 Mathematical ideas; Statistical ideas; The binomial, hypergeometric, and poisson distributions; An introduction to queuing theory; The multinomial distribution and contingency tables; Some tests of the hypothesis of randomness: control charts; Some nonparametric tests; The partitioning of sums of squares; tests of equality of variances and means; One-way analysis of variance; Simple linear regression; The bivariate normal distribution and the correlation coefficient; Regression on several independent variables; Two-way and nested analysis of variance; Three-way and four-way analysis of variance; Partially hierarchical situations; Some simple experimental designs; Appendix.

Protein Function-Thomas E. Creighton 1997 The first editions of Protein Structure and Protein Function were enormously popular; now they've been fully revised and updated. These two-volume sets--available in hardback and paperback--offer considerable savings on the price of the individual volumes.

The Complete Commodore Inner Space Anthology-Hildon, Karl J. H 1985

The Structure and Function of Oral Mucosa-Julia Meyer 1984

Merck Index- 1996-07-01

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