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Kinetic theory of liquids - Iakov Il'ich Frenkel' 1984-01-01

Crown Jewels of Iran - V. B. Meen 1968

The Index for Inclusion - Tony Booth 2016

A Textbook of Organic Chemistry - V. K. Ahluwalia 2000

Emphasis on structure activity relationship, molecules in 3-D and spectroscopic methods based on homologous series. Provides a comprehensive coverage of nomenclature, structure and properties of organic compounds including aromaticity, aromatic substitution and orientation and natural products. Also introduces the reader to pharmaceuticals, pesticides and enzymes. Each chapter accompanied with problems.

Patrick Moore's Data Book of Astronomy - Patrick Moore 2014-01-16

Packed with up-to-date astronomical data about the Solar System, our Galaxy and the wider Universe, this is a one-stop reference for astronomers of all levels. It gives the names, positions, sizes and other key facts of all the planets and their satellites; discusses the Sun in depth, from sunspots to solar eclipses; lists the dates for cometary returns, close-approach asteroids, and significant meteor showers; and includes 88 star charts, with the names, positions, magnitudes and spectra of the stars, along with key data on nebulae and clusters. Full of facts and figures, this is the only book you need to look up data about astronomy. It is destined to become the standard reference for everyone interested in astronomy.

Gravity from the Ground Up - Bernard Schutz 2003-12-04

This book invites the reader to understand our Universe, not just marvel at it. From the clock-like motions of the planets to the catastrophic collapse of a star into a black hole, gravity controls the Universe. Gravity is central to modern physics, helping to answer the deepest questions about the nature of time, the origin of the Universe and the unification of the forces of nature. Linking key experiments and observations through careful physical reasoning, the author builds the reader's insight step-by-step from simple but profound facts about gravity on Earth to the frontiers of research. Topics covered include the nature of stars and galaxies, the mysteries of dark matter and dark energy, black holes, gravitational waves, inflation and the Big Bang. Suitable for general readers and for undergraduate courses, the treatment uses only high-school level mathematics, supplemented by optional computer programs, to explain the laws of physics governing gravity.

Writing Up Research - Robert Weissberg 1990-01-01

This text is for students who are entering graduate-level studies in their academic fields and/or who need to write research results in the form of technical papers, journal articles, theses, or dissertations.

Introduction to Solid State Physics - Charles Kittel 1971

Europe's Environment - 1995

Formal Methods in Systems Engineering - Peter Ryan 2012-12-06

As computer technology is used to control critical systems to an increasing degree, it is vital that the methods for developing and understanding these systems are substantially improved. The mathematical and scientific foundations currently used are extremely limited which means that their correctness and reliability cannot be ensured to an acceptable level. Systems engineering needs to become a fully fledged scientific discipline and formal methods, which are characterised by their firm mathematical foundations, are playing a vital role in achieving this transition. This volume is based on the proceedings of the Formal Methods Workshop (FM91), held in Drymen, Scotland, 24-27 September 1991. This was the second workshop sponsored by the

Canadian and US governments to address the role of formal methods in the development of digital systems. Traditionally, formal methods have evolved in isolation from more conventional approaches, and one of the aims of this workshop was to emphasise the benefits of integrating the two areas. The workshop concentrated on the themes of quality assurance, design methods and mathematical modelling techniques. Particular emphasis was given to safety and security applications. Among the topics covered in this volume are: what is a formal method?; social research on formal methods; current quality assurance methods and formal methods; a pragmatic approach to validation; integrating methods in practice; composition of descriptions; and topics in large program formal development. Formal Methods in Systems Engineering provides an overview of many of the major approaches to formal methods and the benefits which can result from them. It is relevant to academic and industrial researchers, industrial practitioners and government workers with an interest in certification.

Color and Light in Nature - David K. Lynch 2001-06-11

We live in a world of optical marvels - from the commonplace but beautiful rainbow, to the rare and eerie superior mirage. But how many of us really understand how a rainbow is formed, why the setting sun is red and flattened, or even why the sky at night is not absolutely black? This beautiful and informative guide provides clear explanations to all naturally occurring optical phenomena seen with the naked eye, including shadows, halos, water optics, mirages and a host of other spectacles. Separating myth from reality, it outlines the basic principles involved, and supports them with many figures and references. A wealth of rare and spectacular photographs, many in full color, illustrate the phenomena throughout. In this new edition of the highly-acclaimed guide to seeing, photographing and understanding nature's optical delights, the authors have added over 50 new images and provided new material on experiments you can try yourself.

Heat Capacities - Emmerich Wilhelm 2010-01-04

The book contains the very latest information on all aspects of heat capacities related to liquids and vapours, either pure or mixed. The chapters, all written by knowledgeable experts in their respective fields, cover theory, experimental methods, and techniques (including speed of sound, photothermal techniques, brillouin scattering, scanning transitiometry, high resolution adiabatic scanning calorimetry), results on solutions, liquids, vapours, mixtures, electrolytes, critical regions, proteins, liquid crystals, polymers, reactions, effects of high pressure and phase changes. Experimental methods for the determination of heat capacities as well as theoretical aspects, including data correlation and prediction, are dealt with in detail. Of special importance are the contributions concerning heat capacities of dilute solutions, ultrasonics and hypersonics, critical behavior and the influence of high pressure. Computational Methods in Biophysics, Biomaterials, Biotechnology and Medical Systems - Cornelius T. Leondes 2002-11-30

Covers algorithm techniques; computational methods; mathematical analysis methods; and diagnostic methods.

Handbook of Pharmaceutical Analysis - Lena Ohannesian 2001-11-09

Exploring the analysis of pharmaceuticals, including polymorphic forms, this book discusses regulatory requirements in pharmaceutical product development and pharmaceutical testing. It covers methods of drug separation and procedures such as capillary electrophoresis for chromatographic separation of molecules. Additional topics include drug formulation analysis using vibrational and magnetic resonance spectroscopy and identification of drug metabolites and decomposition products using such techniques as mass spectrometry. The book provides more than 300 tables, equations, drawings, and photographs, and convenient, easy-to-use indices, facilitating quick access to each topic.

Stellar Interiors - Carl J. Hansen 2012-12-06

That trees should have been cut down to provide paper for this book was an ecological affront. From a book review. - Anthony Blond (in the Spectator, 1983) The first modern text on our subject, Structure and Evolution of the Stars, was published over thirty years ago. In it, Martin Schwarzschild described numerical experiments that successfully reproduced most of the observed properties of the majority of stars seen in the sky. He also set the standard for a lucid description of the physics of stellar interiors. Ten years later, in 1968, John P. Cox's two-volume monograph Principles of Stellar Structure appeared, as did the more specialized text Principles of Stellar Evolution and Nucleosynthesis by Donald D. Clayton and what a difference ten years had made. The field had matured into the basic form that it remains today. The past twenty-plus years have seen this branch of astrophysics flourish and develop into a fundamental pillar of modern astrophysics that addresses an enormous variety of phenomena. In view of this it might seem foolish to offer another text of finite length and expect it to cover any more than a fraction of what should be discussed to make it a thorough and self-contained reference. Well, it doesn't. Our specific aim is to introduce only the fundamentals of stellar astrophysics. You will find little reference here to black holes, millisecond pulsars, and other "sexy" objects.

Barnhart Concise Dictionary of Etymology - Robert K. Barnhart 1995-09-15

As all lovers of language know, words are the source of our very understanding of ourselves and the world around us. Often, however, our use of language is so automatic that we neglect to consider where those words came from and what they assume. What are the implications, beyond the simple dictionary definitions, of using words such as privilege, hysteria, seminal, and gyp? Browsing through the pages of The Barnhart Concise Dictionary of Etymology is like exploring the historical, political, and rhetorical wonderland of our linguistic heritage. We see the evolution of ideas, as rootword connections that now seem arbitrary are traced to schools of thought from the past. We also find an opportunity to examine how the sometimes backwards, sometimes hilarious, and sometimes illuminating ideologies built into our language affect our modern thinking. Written in a fresh, accessible style, this book provides the derivations of over 21,000 English-language words without resorting to the use of abbreviations, symbols, or technical terminology. Drawing on the most current American scholarship, and focusing on the core words in contemporary English, The Barnhart Concise Dictionary of Etymology is both a diverting browse and a thinking person's Bible. Science: a History, 1543-2001 - John Gribbin 2002

This title begins with Galileo and takes the reader through to the scientific developments of string theory. It is an accessible narrative history, focusing on the way in which science has progressed by building on what went before, and also on the very close relationship between the progress of science and improved technology.

Laboratory Biosafety Manual - World Health Organisation Staff 2004-12-28

This is the third edition of this manual which contains updated practical guidance on biosafety techniques in laboratories at all levels. It is organised into nine sections and issues covered include: microbiological risk assessment; lab design and facilities; biosecurity concepts; safety equipment; contingency planning; disinfection and sterilisation; the transport of infectious substances; biosafety and the safe use of recombinant DNA technology; chemical, fire and electrical safety aspects; safety organisation and training programmes; and the safety checklist.

Complete Physics for Cambridge Secondary 1 Student Book - Helen Reynolds 2013-08-22

Making the leap to Cambridge IGCSE can be a challenge - this brand new course leads learners smoothly through all three stages of Cambridge Secondary 1 Physics up to Cambridge Checkpoint and beyond, with crucial rigour built in from the outset so they can dive into Cambridge IGCSE Science study with confidence.

Astronomy Methods - Hale Bradt 2004

Astronomy Methods is an introduction to basic practical tools, methods and phenomena that underlie quantitative astronomy. Taking a technical approach, the author covers a rich diversity of topics across all branches of astronomy, from radio to gamma-ray wavelengths. Clear, systematic presentations of the topics are accompanied by diagrams and problem sets. Written for undergraduates and graduate students, this book contains a wealth of information that is required for the practice and study of quantitative and analytical astronomy and astrophysics.

Spelling 2 - 2014-04-29

Vocabulary lists made for EFL/ESL learners that reinforce phonemes and phonics skills. Each list of words has several exercises and start with common topics and sounds, including the long and short (or strong and weak) vowels. The lists coordinate grade to grade and within the other subject workbooks of Grammar, Reading and Phonics from B.E.S.T. Academy for the same level. This is the second in a series of 6, where the vocabulary recycles but increases for each level, and the lists are longer for each progressing book. Designed for primary/elementary grades. For more programs or digital licensing for Classroom use please consult www.bestacademyefl.com! For teacher information and resources about this book, please email us at info@bestacademyefl.com!

Designing the School Curriculum - Peter S. Hlebowitsh 2005

"Designing the School Curriculum" takes a practical, step-by-step approach, giving students the thorough grounding in the process that leads to confident and effective practitioners. The author emphasizes the discretionary judgment of the individual teacher and acknowledges that the curriculum design process is completed only in the unique and spontaneous learning exchanges between students and teachers. Practical ideas on the formation of school purposes, the design of school-wide experiences, effective implementation, and the creation of responsive evaluative mechanisms help students to fulfill the goal of the text to design an authentic and effective curriculum. After an introductory chapter examining the role of the teacher in the design process and two brisk chapters leading students through the theoretical foundations of curriculum development, the text launches into the curriculum design process, giving a close look to each element. Hlebowitsh makes a valuable contribution to the field with this new text, offering a contemporary treatment of classic curriculum design theory and, most importantly, equipping students to engage in effective curriculum design themselves. "

The Genesis of the Diamond - Alpheus Fuller Williams 1932

The Peace Forum - 1913

Cosmogenic Radionuclides - Jürg Beer 2012-01-19

Cosmogenic radionuclides are radioactive isotopes which are produced by natural processes and distributed within the Earth system. With a holistic view of the environment the authors show in this book how cosmogenic radionuclides can be used to trace and to reconstruct the history of a large variety of processes. They discuss the way in which cosmogenic radionuclides can assist in the quantification of complex processes in the present-day environment. The book aims to demonstrate to the reader the strength of analytic tools based on cosmogenic radionuclides, their contribution to almost any field of modern science, and how these tools may assist in the solution of many present and future problems that we face here on Earth. The book provides a comprehensive discussion of the basic principles behind the applications of cosmogenic (and other) radionuclides as environmental tracers and dating tools. The second section of the book discusses in some detail the production of radionuclides by cosmic radiation, their transport and distribution in the atmosphere and the hydrosphere, their storage in natural archives, and how they are measured. The third section of the book presents a number of examples selected to illustrate typical tracer and dating applications in a number of different spheres (atmosphere, hydrosphere, geosphere, biosphere, solar physics and astronomy). At the same time the authors have outlined the limitations of the use of cosmogenic radionuclides. Written on a level understandable by graduate students without specialist skills in physics or mathematics, the book addresses a wide audience, ranging from archaeology, biophysics, and geophysics, to atmospheric physics, hydrology, astrophysics and space science.

A Dictionary of Foreign Musical Terms and Handbook of Orchestral Instruments - Tom S. Wotton 1907

Magnetism in Condensed Matter - Stephen Blundell 2001-10-05

An understanding of the quantum mechanical nature of magnetism has led to the development of new magnetic materials which are used as permanent magnets, sensors, and information storage. Behind these practical applications lie a range of fundamental ideas, including symmetry breaking, order parameters, excitations, frustration, and reduced dimensionality. This superb new textbook presents a logical account of these ideas, starting from basic concepts in electromagnetism and quantum mechanics. It outlines the origin of magnetic moments in atoms and how these moments can be affected by their local environment inside a crystal. The different types of interactions which

can be present between magnetic moments are described. The final chapters of the book are devoted to the magnetic properties of metals, and to the complex behaviour which can occur when competing magnetic interactions are present and/or the system has a reduced dimensionality. Throughout the text, the theoretical principles are applied to real systems. There is substantial discussion of experimental techniques and current research topics. The book is copiously illustrated and contains detailed appendices which cover the fundamental principles.

Methane from Biomass: A Systems Approach - Smith Cole
1988-01-31

Quantities, Units and Symbols in Physical Chemistry - E Richard Cohen
2007-10-31

The first IUPAC Manual of Symbols and Terminology for Physicochemical Quantities and Units (the Green Book) of which this is the direct successor, was published in 1969, with the object of 'securing clarity and precision, and wider agreement in the use of symbols, by chemists in different countries, among physicists, chemists and engineers, and by editors of scientific journals'. Subsequent revisions have taken account of many developments in the field, culminating in the major extension and revision represented by the 1988 edition under the simplified title *Quantities, Units and Symbols in Physical Chemistry*. This 2007, Third Edition, is a further revision of the material which reflects the experience of the contributors with the previous editions. The book has been systematically brought up to date and new sections have been added. It strives to improve the exchange of scientific information among the readers in different disciplines and across different nations. In a rapidly expanding volume of scientific literature where each discipline has a tendency to retreat into its own jargon this book attempts to provide a readable compilation of widely used terms and symbols from many sources together with brief understandable definitions. This is the definitive guide for scientists and organizations working across a multitude of disciplines requiring internationally approved nomenclature.

Fluid Dynamics and Dynamos in Astrophysics and Geophysics - Andrew M. Soward
2005-03-16

The increasing power of computer resources along with great improvements in observational data in recent years have led to some remarkable and rapid advances in astrophysical fluid dynamics. The subject spans three distinct but overlapping communities whose interests focus on (1) accretion discs and high-energy astrophysics; (2) solar, stellar, and

Diamonds - Leo P. Kendall
2002

Diamonds may be a girl's best friend but the beauty, rarity and fascinating lore of this precious substance has intrigued man throughout the ages. In this intriguing book, Leo P. Kendall uncovers the ways in which diamonds influenced the world. Included are the fabulous and compelling stories of the colonialist Cecil Rhodes, the De Beers mines, the world's major source of diamonds and Darya-i-Nur, the 185 carat stone with a history that carried it from the Moguls to the Iranian treasury. All the major diamond finds of the centuries are examined and described in detail. From the 'Queen of Diamonds', the Koh-i-Noor, to Henry VIII's diamond collar. *Diamonds: Famous and Fatal* offers a fascinating look at the world's most precious gem.

Metamorphosis - Franz Kafka
2021-02-24

The Metamorphosis is a novella by Franz Kafka, first published in 1915. It has been cited as one of the seminal works of fiction of the 20th century and is studied in colleges and universities across the Western world. The story begins with a traveling salesman, Gregor Samsa, waking to find himself transformed (metamorphosed) into a large, monstrous insect-like creature. The cause of Samsa's transformation is never revealed, and Kafka himself never gave an explanation. The rest of Kafka's novella deals with Gregor's attempts to adjust to his new condition as he deals with being burdensome to his parents and sister, who are repulsed by the horrible, verminous creature Gregor has become.

Handbook of Space Astronomy and Astrophysics - Martin V. Zombeck
2006-11-09

Fully updated and including data from space-based observations, this Third Edition is a comprehensive compilation of the facts and figures relevant to astronomy and astrophysics. As well as a vast number of tables, graphs, diagrams and formulae it also includes a comprehensive index and bibliography, allowing readers to easily find the information they require. The book contains information covering a diverse range of topics in addition to astronomy and astrophysics, including atomic physics, nuclear physics, relativity, plasma physics, electromagnetism,

mathematics, probability and statistics, and geophysics. This handbook contains the most frequently used information in modern astrophysics, and will be an essential reference for graduate students, researchers and professionals working in astronomy and the space sciences. A website with links to extensive supplementary information and databases can be found at www.cambridge.org/9780521782425.

Introduction to Optics and Lasers in Engineering - Gabriel Laufer
1996-07-13

In a very short time, lasers advanced from research interest to increasingly useful, commercially available tools for material processing, precision measurements, surgery, communication, and even entertainment. This 1996 book provides the background in theoretical physics necessary to understand engineering applications. It summarises relevant theories of geometrical optics, physical optics, quantum optics, and laser physics and ties them to applications in such areas as fluid mechanics, combustion, surface analysis, material processing and laser machining. Advanced topics such as laser Doppler velocimetry, laser-induced fluorescence, and holography are clearly and thoroughly explained. The book includes numerous examples and homework problems. A unique feature is the advanced research problems in each chapter that simulate real-world research and encourage independent reading and analysis.

Historical Dictionary of Organized Labor - James C. Docherty
2012-06-14

Organized labor is about the collective efforts of employees to improve their economic, social, and political position. It can be studied from many different points of view—historical, economic, sociological, or legal—but it is fundamentally about the struggle for human rights and social justice. As a rule, organized labor has tried to make the world a fairer place. Even though it has only ever covered a minority of employees in most countries, its effects on their political, economic, and social systems have been generally positive. History shows that when organized labor is repressed, the whole society suffers and is made less just. The *Historical Dictionary of Organized Labor* looks at the history of organized labor to see where it came from and where it has been. This is done through a chronology, an introductory essay, appendixes, a glossary of terms, and an extensive bibliography. The dictionary section has over 400 cross-referenced entries on most countries, international as well as national labor organizations, major labor unions, leaders, and other aspects of organized labor such as changes in the composition of its membership. This book is an excellent access point for students, researchers, and anyone wanting to know more about organized labor.

Education Around the Globe - Tonya Huber
2021-01-01

International Education Inquiries is a book series dedicated to realizing the global vision of The United Nations' (2015) *Transforming Our World: The 2030 Agenda for Sustainable Development*. As resolved by the UN General Assembly (on 25 September 2015; see UN, 2015 October): The 17 Sustainable Development Goals and 169 targets which we are announcing today demonstrate the scale and ambition of this new universal Agenda. They seek to build on the Millennium Development Goals and complete what they did not achieve. They seek to realize the human rights of all and to achieve gender equality and the empowerment of all women and girls. They are integrated and indivisible and balance the three dimensions of sustainable development: the economic, social and environmental. The United Nations' goals and targets will stimulate action over the next decade in areas of critical importance for humanity and the planet... We are determined to end poverty and hunger, in all their forms and dimensions, and to ensure that all human beings can fulfil their potential in dignity and equality and in a healthy environment. This vision includes to "ensure inclusive and equitable quality education and promote lifelong learning opportunities for all" (SDG4, UN, 2017). The founding co-editors seek to provide a forum for the diverse voices of scholars and practitioners from across the globe asking questions about transforming the vision of Education 2030 into a reality. Published chapters reflect a variety of formats, free of methodological restrictions, involving disciplinary as well as interdisciplinary inquiries. We expect the series will be a leading forum for pioneers redefining the international professional knowledge base about the people, places, and perspectives shaping Education 2030 outcomes and the meaning of global citizen education (UNESCO, 2015). Education 2030 topics of interest include, but are not limited to the following:

- Improving access to quality early childhood development, care, and pre-primary education.
- Ensuring equal access for all women and men to affordable and quality education.
- Increasing the number of youth and adults who have skills relevant for sustainable living and livelihoods.
- Ensuring equal access for the vulnerable, including persons with disabilities, indigenous peoples, and

children in vulnerable situations. • Achieving levels of literacy and numeracy required to engage in communities and employment. • Acquiring the knowledge and skills needed to promote sustainable development, including: education for sustainable development and sustainable lifestyles, human rights, gender equality, promotion of a culture of peace and non-violence, global citizenship education, and the appreciation of cultural diversity and of culture's contributions to sustainable development. • Providing safe, non-violent, inclusive and effective learning environments for all. • Recruiting, preparing, supporting, and retaining quality teachers.

Recent Developments in Theoretical Physics - Subir Ghosh (Prof.) 2010

1. Is the end of theoretical physics really in sight? / A. Khare -- 2. Holography, CFT and black hole entropy / P. Majumdar -- 3. Hawking radiation, effective actions and anomalies / R. Banerjee -- 4. Probing dark matter in primordial black holes / A.S. Majumdar -- 5. Physics in the 'Once Given' universe / C.S. Unnikrishnan -- 6. Doubly-special relativity / G. Amelino-Camelia -- 7. Nuances of neutrinos / A. Raychaudhuri -- 8. Dynamics of proton spin / A.N. Mitra -- 9. Whither nuclear physics? / A. Abbas -- 10. Generalized Swanson model and its pseudo supersymmetric partners / A. Sinha and P. Roy -- 11. The relevance of berry phase in quantum physics / P. Bandyopadhyay -- 12. Quantum Hamiltonian

diagonalization / P. Gosselin, A. Bérard and H. Mohrbach -- 13. The Hall conductivity of spinning anyons / B. Basu -- 14. Quantum annealing and computation / A. Das and B.K. Chakrabarti -- 15. Liouville gravity from Einstein gravity / D. Grumiller and R. Jackiw -- 16. Exact static solutions of a generalized discret σ / A. Khare -- 17. A model for flow reversal in two-dimensional convection / K. Kumar [und weitere] -- 18. Euclidean networks and dimensionality / P. Sen -- 19. Equal superposition transformations and quantum random walks / P. Parashar - - 20. Cloning entanglement locally / S.K. Choudhary and R. Rahaman

FM 7-22 Army Physical Readiness Training - Headquarters Department of the Army 2018-09-16

Field Manual 7-22 encompasses the US Army Physical Readiness Training program in its entirety. This is a must have reference for all leaders and Soldiers in order to fully understand and implement PRT (Physical Readiness Training) at the Squad, Company / Battery / Troop and higher levels. This 6x9 inch paperback is perfect for personal use and carry, and is designed to fit with other books published in this series.

The Palace of Dreams - Ismail Kadare 1998

Translated from the Jusef Vroni's French version of the Albanian original, this is the author's own vision of totalitarianism.

Caring for Our Future - 1999