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The Grand Design - Stephen Hawking 2010-09-07

#1 NEW YORK TIMES BESTSELLER When and how did the universe begin? Why are we here? What is the nature of reality? Is the apparent "grand design" of our universe evidence of a benevolent creator who set things in motion—or does science offer another explanation? In this startling and lavishly illustrated book, Stephen Hawking and Leonard Mlodinow present the most recent scientific thinking about these and other abiding mysteries of the universe, in nontechnical language marked by brilliance and simplicity. According to quantum theory, the cosmos does not have just a single existence or history. The authors explain that we ourselves are the product of quantum fluctuations in the early universe, and show how quantum theory predicts the "multiverse"—the idea that ours is just one of many universes that appeared spontaneously out of nothing, each with different laws of nature. They conclude with a riveting assessment of M-theory, an explanation of the laws governing our universe that is currently the only viable candidate for a "theory of everything": the unified theory that Einstein was looking for, which, if confirmed, would represent the ultimate triumph of human reason.

University Physics - Samuel J. Ling 2016-08

"University Physics is a three-volume collection that meets the scope and sequence requirements for two- and three-semester calculus-based physics courses. Volume 1 covers mechanics, sound, oscillations, and waves. This textbook emphasizes connections between theory and application, making physics concepts interesting and accessible to students while maintaining the mathematical rigor inherent in the subject. Frequent, strong examples focus on how to approach a problem, how to work with the equations, and how to check and generalize the result."--Open Textbook Library.

Proceedings of Seventh International Conference on Bio-Inspired Computing: Theories and Applications (BIC-TA 2012) - Jagdish C. Bansal 2012-12-04

The book is a collection of high quality peer reviewed research papers presented in Seventh International Conference on Bio-Inspired Computing (BIC-TA 2012) held at ABV-IIITM Gwalior, India. These research papers provide the latest developments in the broad area of "Computational Intelligence". The book discusses wide variety of industrial, engineering and scientific applications of nature/bio-inspired computing and presents invited papers from the inventors/originators of novel computational techniques.

A Suitable Boy - Vikram Seth 1994

Optical Fiber Technology and Applications - Mário F. S. Ferreira 2020
Optical Fiber Technology and Applications: Recent advances, comprised of 10 chapters written by leading experts in the field, documents the cutting-edge work of new material composition and waveguide design-based specialty optical fibers and their photonic devices. Highlighting the most recent progress and trends in optical fiber technology, this book covers important topics such as specialty optical fibers, optical amplifiers, radiation dosimetry, borosilicate glass, radiation effect, fiber optic temperature sensors, pulsed fiber lasers, non-linear fiber optics, solitons, supercontinuum generation, and fiber-optic-based 5G networks. Solely devoted to the most recent achievements in the development of different varieties of specialty optical fibers, this book serves as a universal resource for future development in the field while providing students, researchers, and technology managers with valuable, timely, and unbiased information on the subject. Part of IOP Series in Emerging Technologies in Optics and Photonics.

Ceramic Conductors - Maria Gazda 2019-05-24

This Special Issue of Crystals contains papers focusing on various properties of conducting ceramics. Multiple aspects of both the research and application of this group of materials have been addressed. Conducting ceramics are the wide group of mostly oxide materials which play crucial roles in various technical applications, especially in the context of the harvesting and storage of energy. Without ion-conducting oxides, such as yttria-stabilized zirconia, doped ceria devices such as solid oxide fuel cells would not exist, not to mention the wide group of other ion conductors which can be applied in batteries or even electrolyzers, besides fuel cells. The works published in this Special Issue tackle experimental results as well as general theoretical trends in the field of ceramic conductors, or electroceramics, as it is often referred to.

A Briefer History of Time - Stephen Hawking 2008-05-13

#1 NEW YORK TIMES BESTSELLING AUTHORS The science classic made more accessible • More concise • Illustrated FROM ONE OF THE MOST BRILLIANT MINDS OF OUR TIME COMES A BOOK THAT CLARIFIES HIS MOST IMPORTANT IDEAS Stephen Hawking's worldwide bestseller A Brief History of Time remains a landmark volume in scientific writing. But for years readers have asked for a more accessible formulation of its key concepts—the nature of space and time, the role of God in creation, and the history and future of the universe. A Briefer History of Time is Professor Hawking's response. Although "briefer," this book is much more than a mere explanation of Hawking's earlier work. A Briefer History of Time both clarifies and expands on the great subjects of the original, and records the latest developments in the field—from string theory to the search for a unified theory of all the forces of physics. Thirty-seven full-color illustrations enhance the text and make A Briefer History of Time an exhilarating and must-have addition in its own right to the great literature of science and ideas.

Business Maharajas - Gita Piramal 2000-10-14

The inside track to India's most powerful tycoons The eight business maharajas profiled here are among Asia's most powerful industrial tycoons, Their combined turnover runs into billions of rupees, and between them they employ some 650,000 people, while indirectly affecting the lives of millions more. Sip a cup of tea, drive to work, listen to music, build a house and the chances are that in these and a myriad other ways you are using products that they manufacture or market. By any yardstick, the achievements of these men would rank among the great business stories of our time. How did these men build their enormous empires? What are their management secrets? How did they thrive and prosper even as others failed? What is their vision for the future? Top business writer and industry insider Gita Piramal draws on exhaustive interviews and in-depth research to discover the answers to these and related questions in her profiles of the men who will lead the country's push to become an industrial superpower in the 21st century.

Quantum Phase Transitions in Transverse Field Models - Amit Dutta 2015-01-28

This book establishes the fundamental connections between the physics of quantum phase transitions and the technological promise of quantum information.

Brain-Bladder Axis in Tissue Growth and Remodelling - Roustem N. Miftahof 2021-06

Applying the general deterministic approach of systems computational biology, the monograph considers questions related to the biomechanics of the human urinary bladder in conjunction with the peripheral and central nervous systems. The step-by-step development of mathematical models of separate structural elements and their assembly into a unique self-regulatory system offers, for the first time, a holistic overview and allows the investigation of the dynamics of the lower urinary tract system

at its hierarchical levels. This book provides a coherent description and explanation for intertwined intracellular pathways in terms of spatiotemporal, whole body, tractable representations which are supported by numerous computational simulations. Key Features It reconstructs accurately the cytoarchitecture and morphofunctional relationships between the elements of the central nervous (brain) and genitourinary (urinary bladder system). Offers for the first time a both quantitative and qualitative, assessment of the neurohormonal and mechanobiological processes involved in the process. Provides a comprehensive description for intertwined regulatory pathways in terms of spatiotemporal dynamic representations. Encourages the reader to develop and apply a unique holistic approach to solving complex biomedical problems in the area of growth and remodeling of the urinary bladder through application of modern methods of computational biology.

Problems in Elementary Physics - Arihant Experts 2019-01-11

The Foundations of Buddhism - Rupert Gethin 1998-07-16

In this introduction to the foundations of Buddhism, Rupert Gethin concentrates on the ideas and practices which constitute the common heritage of the different traditions of Buddhism (Thervada, Tibetan and Eastern) which exist in the world today.

Nuclear Physics - S. B. Patel 1991

Dr. S. B. Patel is Professor of Physics, Bombay University. He has taught physics for more than twenty years at the B. Sc. and M.Sc. levels at Ramnarain Ruia College, Bombay. He earned his Ph. D. in Nuclear Physics from Tifr-Bombay University in 1976. Later he was involved in post-doctoral research at the Lawrence Berkeley Laboratory, California. His field of specialization is Nuclear Spectroscopy.

The Poetry of Physics and the Physics of Poetry - Robert K Logan 2010-06-04

This is a textbook for a survey course in physics taught without mathematics, that also takes into account the social impact and influences from the arts and society. It combines physics, literature, history and philosophy from the dawn of human life to the 21st century. It will also be of interest to the general reader. Contents: The Origins of Physics Physics of the Ancient Greek Era Poetry Influenced by the Scientific Revolution The Concept of Energy Thermodynamics and the Atomic and Molecular Structure of Matter The General Theory of Relativity The Structure of the Atom Wave Mechanics Quantum Electrodynamics Elementary Particles, Quarks and Quantum Chromodynamics Cosmology and the Universe: The Big Bang, Dark Matter and Dark Energy and other papers Readership: High school students, undergraduates and general readers.

A Guide to Physics Problems - Sidney B. Cahn 1994-08-31

In order to equip hopeful graduate students with the knowledge necessary to pass the qualifying examination, the authors have assembled and solved standard and original problems from major American universities - Boston University, University of Chicago, University of Colorado at Boulder, Columbia, University of Maryland, University of Michigan, Michigan State, Michigan Tech, MIT, Princeton, Rutgers, Stanford, Stony Brook, University of Wisconsin at Madison - and Moscow Institute of Physics and Technology. A wide range of material is covered and comparisons are made between similar problems of different schools to provide the student with enough information to feel comfortable and confident at the exam. Guide to Physics Problems is published in two volumes: this book, Part 1, covers Mechanics, Relativity and Electrodynamics; Part 2 covers Thermodynamics, Statistical Mechanics and Quantum Mechanics. Praise for A Guide to Physics Problems: Part 1: Mechanics, Relativity, and Electrodynamics: "Sidney Cahn and Boris Nadgorny have energetically collected and presented solutions to about 140 problems from the exams at many universities in the United States and one university in Russia, the Moscow Institute of Physics and Technology. Some of the problems are quite easy, others are quite tough; some are routine, others ingenious." (From the Foreword by C. N. Yang, Nobelist in Physics, 1957) "Generations of graduate students will be grateful for its existence as they prepare for this major hurdle in their careers." (R. Shankar, Yale University) "The publication of the volume should be of great help to future candidates who must pass this type of exam." (J. Robert Schrieffer, Nobelist in Physics, 1972) "I was positively impressed ... The book will be useful to students who are studying for their examinations and to faculty who are searching for appropriate problems." (M. L. Cohen, University of California at Berkeley) "If a student understands how to solve these problems, they

have gone a long way toward mastering the subject matter." (Martin Olsson, University of Wisconsin at Madison) "This book will become a necessary study guide for graduate students while they prepare for their Ph.D. examination. It will become equally useful for the faculty who write the questions." (G. D. Mahan, University of Tennessee at Knoxville)

Gallium Oxide - Masataka Higashiwaki 2020-04-23

This book provides comprehensive coverage of the new wide-bandgap semiconductor gallium oxide (Ga₂O₃). Ga₂O₃ has been attracting much attention due to its excellent materials properties. It features an extremely large bandgap of greater than 4.5 eV and availability of large-size, high-quality native substrates produced from melt-grown bulk single crystals. Ga₂O₃ is thus a rising star among ultra-wide-bandgap semiconductors and represents a key emerging research field for the worldwide semiconductor community. Expert chapters cover physical properties, synthesis, and state-of-the-art applications, including materials properties, growth techniques of melt-grown bulk single crystals and epitaxial thin films, and many types of devices. The book is an essential resource for academic and industry readers who have an interest in, or plan to start, a new R&D project related to Ga₂O₃.

The Elements of Physics - Ian S. Grant 2001

An introduction to physics for first-year physics students, designed to deliver information clearly and concisely. The authors guide the student through the foundations of university physics in this authoritative introduction. The two-colour text design and over 500 diagrams bring out the key points, and the text makes full advantage of features such as worked examples, graded problems, and an appendix on necessary mathematics in order to better explain the subject and meet the needs of the modern student. TEACHING AIDS On-line solutions for students written by the authors

Physics for Degree Students B.Sc. First Year - C L Arora & P S Hemne

"Physics for Degree Students" is written exclusively for B.Sc. first year students. For close to 10 years, the text provides close to 1500 pedagogical elements spread across 24 chapters to the students while covering the entire syllabus.

Numerical Chemistry - PRATESH BAHADUR 1994

Multilayer Thin Films - Sukumar Basu 2020-01-15

This book, "Multilayer Thin Films-Versatile Applications for Materials Engineering", includes thirteen chapters related to the preparations, characterizations, and applications in the modern research of materials engineering. The evaluation of nanomaterials in the form of different shapes, sizes, and volumes needed for utilization in different kinds of gadgets and devices. Since the recently developed two-dimensional carbon materials are proving to be immensely important for new configurations in the miniature scale in the modern technology, it is imperative to innovate various atomic and molecular arrangements for the modifications of structural properties. Of late, graphene and graphene-related derivatives have been proven as the most versatile two-dimensional nanomaterials with superb mechanical, electrical, electronic, optical, and magnetic properties. To understand the in-depth technology, an effort has been made to explain the basics of nano-dimensional materials. The importance of nano particles in various aspects of nano technology is clearly indicated. There is more than one chapter describing the use of nanomaterials as sensors. In this volume, an effort has been made to clarify the use of such materials from non-conductor to highly conducting species. It is expected that this book will be useful to the postgraduate and research students as this is a multidisciplinary subject.

University Physics - OpenStax 2016-11-04

University Physics is a three-volume collection that meets the scope and sequence requirements for two- and three-semester calculus-based physics courses. Volume 1 covers mechanics, sound, oscillations, and waves. Volume 2 covers thermodynamics, electricity and magnetism, and Volume 3 covers optics and modern physics. This textbook emphasizes connections between theory and application, making physics concepts interesting and accessible to students while maintaining the mathematical rigor inherent in the subject. Frequent, strong examples focus on how to approach a problem, how to work with the equations, and how to check and generalize the result. The text and images in this textbook are grayscale.

A Text-book on the Elements of Physics - Alfred Payson Gage 1883

1000 Solved Problems in Modern Physics - Ahmad A. Kamal 2010-06-23

This book is targeted mainly to the undergraduate students of USA, UK and other European countries, and the M. Sc of Asian countries, but will

be found useful for the graduate students, Graduate Record Examination (GRE), Teachers and Tutors. This is a by-product of lectures given at the Osmania University, University of Ottawa and University of Tebrez over several years, and is intended to assist the students in their assignments and examinations. The book covers a wide spectrum of disciplines in Modern Physics, and is mainly based on the actual examination papers of UK and the Indian Universities. The selected problems display a large variety and conform to syllabi which are currently being used in various countries. The book is divided into ten chapters. Each chapter begins with basic concepts containing a set of formulae and explanatory notes for quick reference, followed by a number of problems and their detailed solutions. The problems are judiciously selected and are arranged section-wise. The solutions are neither pedantic nor terse. The approach is straight forward and step-by-step solutions are elaborately provided. More importantly the relevant formulas used for solving the problems can be located in the beginning of each chapter. There are approximately 150 line diagrams for illustration. Basic quantum mechanics, elementary calculus, vector calculus and Algebra are the pre-requisites.

Physics II For Dummies - Steven Holzner 2010-06-15

A plain-English guide to advanced physics Does just thinking about the laws of motion make your head spin? Does studying electricity short your circuits? Physics II For Dummies walks you through the essentials and gives you easy-to-understand and digestible guidance on this often intimidating course. Thanks to this book, you don't have to be Einstein to understand physics. As you learn about mechanical waves and sound, forces and fields, electric potential and electric energy, and much more, you'll appreciate the For Dummies law: The easier we make it, the faster you'll understand it! An extension of the successful Physics I For Dummies Covers topics in a straightforward and effective manner Explains concepts and terms in a fast and easy-to-understand way Whether you're currently enrolled in an undergraduate-level Physics II course or just want a refresher on the fundamentals of advanced physics, this no-nonsense guide makes this fascinating topic accessible to everyone.

Electrode Materials for Energy Storage and Conversion - Mesfin A. Kebede 2021-11-17

This book provides a comprehensive overview of the latest developments and materials used in electrochemical energy storage and conversion devices, including lithium-ion batteries, sodium-ion batteries, zinc-ion batteries, supercapacitors and conversion materials for solar and fuel cells. Chapters introduce the technologies behind each material, in addition to the fundamental principles of the devices, and their wider impact and contribution to the field. This book will be an ideal reference for researchers and individuals working in industries based on energy storage and conversion technologies across physics, chemistry and engineering. FEATURES Edited by established authorities, with chapter contributions from subject-area specialists Provides a comprehensive review of the field Up to date with the latest developments and research Editors Dr. Mesfin A. Kebede obtained his PhD in Metallurgical Engineering from Inha University, South Korea. He is now a principal research scientist at Energy Centre of Council for Scientific and Industrial Research (CSIR), South Africa. He was previously an assistant professor in the Department of Applied Physics and Materials Science at Hawassa University, Ethiopia. His extensive research experience covers the use of electrode materials for energy storage and energy conversion. Prof. Fabian I. Ezema is a professor at the University of Nigeria, Nsukka. He obtained his PhD in Physics and Astronomy from University of Nigeria, Nsukka. His research focuses on several areas of materials science with an emphasis on energy applications, specifically electrode materials for energy conversion and storage.

Pattern Recognition and Machine Intelligence - Sergei O. Kuznetsov 2011-06-14

This book constitutes the refereed proceedings of the 4th International Conference on Pattern Recognition and Machine Intelligence, PReMI 2011, held in Moscow, Russia in June/July 2011. The 65 revised papers presented together with 5 invited talks were carefully reviewed and selected from 140 submissions. The papers are organized in topical sections on pattern recognition and machine learning; image analysis; image and video information retrieval; natural language processing and text and data mining; watermarking, steganography and biometrics; soft computing and applications; clustering and network analysis; bio and chemo analysis; and document image processing.

Elements Of Physics Vol. I - D. Chattopadhyay 2004

Salient Features Of This New Edition : * It Is Thoroughly Revised, Enlarged, And Updated Keeping In View The New Syllabus Introduced

By The Council Of Higher Secondary Education. Volume Of The Book Contains Mechanics, General Properties Of Matter, Heat And Thermodynamics, And Vibrations And Waves. * Volume Ii Includes Optics, Electricity And Magnetism, And Modern Physics. * The Subject Is Presented Herein In A Clear And Concise Way With Illustrations From The Modern Technologically Advanced World. The Language Is Simple And Lucid. * Care Has Been Taken To Expose The Students To Different Systems Of Units, Including Si. * Various Types Of Problems Have Been Solved. Numerous Questions And Problems Have Also Been Set As Exercises For The Students. Most Of Them Have Been Carefully Selected From Recent Examination Papers. * A Number Of Interesting Objectives (With Answers) Have Been Included To Help The Students In Joint Entrance Examinations. * Many Harder Problems Particularly Meant For Competitive Examinations Have Been Incorporated. A Number Of These Problems Have Been Solved, And The Rest Are Left As Exercises For The Students.

NanoAgroceuticals & NanoPhytoChemicals - Bhupinder Singh 2018-11-19

This book volume encompasses the recent trends made in the applications of nanoscale tools for diverse constituents of plants and agriculture, particularly in addressing the critical issues related to their safety, efficacy, and efficient and cost-efficient development and production.

Bengali Language Handbook - Punya Sloka Ray 1966

India's New Capitalists - H. Damodaran 2008-06-25

In order to do business effectively in contemporary South Asia, it is necessary to understand the culture, the ethos, and the region's new trading communities. In tracing the modern-day evolution of business communities in India, this book uses social history to systematically document and understand India's new entrepreneurial groups.

Autobiography of a Yogi - Paramhansa Yogananda 2014-04-12

The characteristic features of Indian culture have long been a search for ultimate verities and the concomitant disciple-guru 1-2 relationship. My own path led me to a Christlike sage whose beautiful life was chiseled for the ages. He was one of the great masters who are India's sole remaining wealth. Emerging in every generation, they have bulwarked their land against the fate of Babylon and Egypt. I find my earliest memories covering the anachronistic features of a previous incarnation. Clear recollections came to me of a distant life, a yogi 1-3 amidst the Himalayan snows. These glimpses of the past, by some dimensionless link, also afforded me a glimpse of the future. The helpless humiliations of infancy are not banished from my mind. I was resentfully conscious of not being able to walk or express myself freely. Prayerful surges arose within me as I realized my bodily impotence. My strong emotional life took silent form as words in many languages.

Physics - David Halliday 2001-07-01

The publication of the first edition of Physics in 1960 launched the modern era of physics textbooks. It was a new paradigm then and, after 40 years, it continues to be the dominant model for all texts. The big change in the market has been a shift to a lower level, more accessible version of the model. Fundamentals of Physics is a good example of this shift. In spite of this change, there continues to be a demand for the original version and, indeed, we are seeing a renewed interest in Physics as demographic changes have led to greater numbers of well-prepared students entering university. Physics is the only book available for academics looking to teach a more demanding course.

Meghnad Saha - Pramod V. Naik 2017-09-14

This biography is a short yet comprehensive overview of the life of Meghnad Saha, the mastermind behind the frequently used Saha equations and a strong contributor to the foundation of science in India. The author explores the lesser known details behind the man who played a major role in building scientific institutions in India, developed the breakthrough theory of thermal ionization, and whose fervor about India's rapid progress in science and technology, along with concern for uplifting his countrymen and optimizing resources, led him to eventually enter politics and identify the mismanagement of many programs of national importance to Parliament. This book is free of most academic technicalities, so that the reader with general scientific knowledge can read and understand it easily. One interested only in Saha's contribution to physics can pick up just that part and read it. Conversely, the average reader may skip the technical chapters, and read the book without loss of continuity or generality to still get a coherent picture. This work touches on all aspects of Saha's multidimensional personality, which overflows in the pages of his periodical, Science and Culture, as well as his many

speeches, debates and discussions in Parliament, all of which is appropriately conveyed in this book.

Know Your State West Bengal - Goutam Chakraborty 2020-12-07

An editorial team of highly skilled professionals at Arihant, works hand in glove to ensure that the students receive the best and accurate content through our books. From inception till the book comes out from print, the whole team comprising of authors, editors, proofreaders and various other involved in shaping the book put in their best efforts, knowledge and experience to produce the rigorous content the students receive. Keeping in mind the specific requirements of the students and various examinations, the carefully designed exam oriented and exam ready content comes out only after intensive research and analysis. The experts have adopted whole new style of presenting the content which is easily understandable, leaving behind the old traditional methods which once used to be the most effective. They have been developing the latest content & updates as per the needs and requirements of the students making our books a hallmark for quality and reliability for the past 15 years.

Comprehensive Practical Chemistry XII - Dr. N . K. Verma 2011-11

The Accidental Prime Minister - Sanjaya Baru 2015-07-05

When *The Accidental Prime Minister* was published in 2014, it created a storm and became the publishing sensation of the year. The Prime Minister's Office called the book a work of 'fiction', the press hailed it as a revelatory account of Prime Minister Manmohan Singh's first term in UPA. Written by Singh's media adviser and trusted aide, the book describes Singh's often troubled relations with his ministers, his cautious equation with Sonia Gandhi and how he handled the big crises from managing the Left to pushing through the nuclear deal. Insightful, acute

and packed with political anecdotes, *The Accidental Prime Minister* is one of the great insider accounts of Indian political life.

The Physics of Energy - Robert L. Jaffe 2018-01-25

A comprehensive and unified introduction to the science of energy sources, uses, and systems for students, scientists, engineers, and professionals.

Information Technology and Mobile Communication - Vinu V Das 2011-04-13

This book constitutes the refereed proceedings of the International Conference on Advances in Information Technology and Mobile Communication, AIM 2011, held at Nagpur, India, in April 2011. The 31 revised full papers presented together with 27 short papers and 34 poster papers were carefully reviewed and selected from 313 submissions. The papers cover all current issues in theory, practices, and applications of Information Technology, Computer and Mobile Communication Technology and related topics.

Problems In General Physics - I.E. Irodov 2008-12-01

Semiconductor Device Physics and Design - Umesh Mishra 2007-11-28

Semiconductor Device Physics and Design teaches readers how to approach device design from the point of view of someone who wants to improve devices and can see the opportunity and challenges. It begins with coverage of basic physics concepts, including the physics behind polar heterostructures and strained heterostructures. The book then details the important devices ranging from p-n diodes to bipolar and field effect devices. By relating device design to device performance and then relating device needs to system use the student can see how device design works in the real world.