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Electromagnetic Theory - Julius Adams Stratton 2007-01-22

This book is an electromagnetics classic. Originally published in 1941, it has been used by many generations of students, teachers, and researchers ever since. Since it is classic electromagnetics, every chapter continues to be referenced to this day. This classic reissue contains the entire, original edition first published in 1941. Additionally, two new forewords by Dr. Paul E. Gray (former MIT President and colleague of Dr. Stratton) and another by Dr. Donald G. Dudley, Editor of the IEEE Press Series on E/M Waves on the significance of the book's contribution to the field of Electromagnetics.

Environment Evolution and Values - D.P. Chattopadhyaya 2007

This book is mainly concerned with environment evolution and values, -- terms which figure in its very title. The basic underlying concepts of evolution are natural environment highlighted by Lamarck (1744-1829), Heredity and natural selection emphasised by Darwin (1809-1882) and genetic mutation first developed by Mendel (1822-1884). Though these three great life scientists brought to light three main components of biological evolution, these were known and formulated by others for a long time. Nature is ordinarily believed to be a world of facts governed by law of causality and values are said to be rooted in human freedom. The author of this book has paid special attention to the so-called value-fact dualism with special reference to changing theories of evolution, and an attempt has been made to show that the supposed dualism is untenable. This book will be of interest to philosophers, life scientists and social scientists. It will be of interest also to the general readers.

Statistical Mechanics - R K Pathria 2017-02-21

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.

Disordered Materials - Satya Prakash 2003

Proceedings of the National Conference on "Recent Developments on Disordered Materials", held in Dept. of Physics, Panjab University, Chandigarh, on 15-16 March, 2001; contributed papers.

Introductory Statistical Mechanics - Roger Bowley 1999

This book explains the ideas and techniques of statistical mechanics--the theory of condensed matter--in a simple and progressive way. The text begins with the laws of thermodynamics and the basic ideas of quantum mechanics. The conceptual ideas are then developed carefully, and the mathematical techniques are developed in parallel to give a coherent overall view. The text is illustrated with examples not just from

solid state physics, but also from recent theories of radiation from black holes and recent data on the background radiation from the Cosmic Background Explorer. This second edition includes additional advanced material often found in undergraduate courses. It includes three new chapters on phase transitions at an appropriate level for an undergraduate student, and there are numerous exercises at the end of each chapter, along with brief model answers for the odd-numbered problems. It is a useful and practical textbook for undergraduates in physics and chemistry.

Heat Thermodynamics and Statistical Physics - Brij Lal | N Subrahmanyam | PS Hemne 2008

This textbook familiarizes the students with the general laws of thermodynamics, kinetic theory & statistical physics, and their applications to physics. Conceptually strong, it is flourished with numerous figures and examples to facilitate understanding of concepts. Written primarily for B.Sc. Physics students, this textbook would also be a useful reference for students of engineering.

Indian Books in Print - 2003

Statistical and Thermal Physics - R. S. GAMBHIR 2008-09-24

A standard text combining statistical physics with thermal phenomena, this book presents a unified approach to provide a deeper insight into the subject and to bring out the subtle unity of statistical mechanics and thermodynamics. Suitable as a text for undergraduate courses in physics. KEY FEATURES • Presents a new pedagogical approach introducing macroscopic (classical) thermodynamics through the statistical mechanics. This new approach is increasingly sought to be introduced worldwide. • Magnitudes of physical quantities under discussion are emphasized through worked-out examples. • Questions and exercises are interspersed with the text to help students consolidate the learning. • Techniques developed in this course are applied to actual modern situations. • Many topics are introduced through the problems to help inculcate self-study.

Science Reporter - 1993

Electrodynamics - S. L. Kakani 2020-03

This book deals with the essentials of electrodynamics and incorporates the basic principles and mathematics involved in the subject. It is a self-contained book comprising 18 chapters and 9 appendices written in a cogent style to help the readers grasp the information quickly and easily. Figures, tables and appendices have been liberally added to explain the concepts lucidly. The book is designed to fulfil the requirements of undergraduate and postgraduate students in the disciplines of physics, electrical and electronics engineering, electronics and communication engineering, and electronics and telecommunication engineering.

Thermodynamics, Statistical Physics, and Kinetics - Ūrii Borisovich Rumer 1980

Ion Channels and Their Inhibitors - Satya Prakash Gupta 2011-06-21

Being the crucial components of living cells, ion channels are important targets of therapeutic agents. Historically, it has been challenging to develop drugs on this target class. A major issue with target based ion

channel drug development is the identification of effective small chemical leads for medicinal chemistry optimization to the clinical candidate status. Thus enough attention has been paid to the study of structure and functions of ion channels and their potential inhibitors. The present book compiles important chapters authored by eminent workers in the field to cover important recent advances in the studies of the structure and functions of ion channels and their inhibitors, such as sodium ion, potassium ion, chloride ion, calcium ion channel inhibitors. The book may be of great use to the students and scientists working in the area of molecular biology, biochemistry, physiology, neurobiology, and medicinal chemistry.

Solid State Physics and Electronics - RK Puri | VK Babbar 2008

The present edition is brought up to incorporate the useful suggestions from a number of readers and teachers for the benefit of students. A topic on common-collector configuration is added to the chapter XIII. A new chapter on logic gates is introduced at the end. Keeping in view the present style of university Question papers, a number of very short, short and long thoroughly revised and corrected to remove the errors which crept into earlier editions.

An Introduction to Thermal Physics - Daniel V. Schroeder 2021-01-05

This is a textbook for the standard undergraduate-level course in thermal physics. The book explores applications to engineering, chemistry, biology, geology, atmospheric science, astrophysics, cosmology, and everyday life.

INIS Atomindex - 1983

Paperbacks in Print - 1977

Modern Physics - Kiruthiga Sivaprasath 2008

The present Multicolor edition has been thoroughly revised and updated taking into account the recent syllabi of various Indian Universities. Multicolor pictures have been added to enhance the content value and to give the students an idea of what he will be dealing in reality, and to bridge the gap between theory and practice.

Viral Proteases and Their Inhibitors - Satya Prakash Gupta 2017-07-03

Viral Proteases and Their Inhibitors provides a thorough examination of viral proteases from their molecular components, to therapeutic applications. As information on three dimensional structures and biological functions of these viral proteases become known, unexpected protein folds and unique mechanisms of proteolysis are realized. This book investigates how this facilitates the design and development of potent antiviral agents used against life-threatening viruses. Users will find descriptions of each virus that detail the structure and function of viral proteases, discuss the design and development of inhibitors, and analyze the structure-activity relationships of inhibitors. This book is ideal for biochemists, virologists and those working on antiviral agents. Provides comprehensive, state-of-the-art coverage of virus infections, the virus lifecycle, and mechanisms of protease inhibition. Analyzes structure-activity relationships of inhibitors of each viral protease. Presents an in-depth view of the structure and function of viral proteases.

Statistical Mechanics for Engineers - Isamu Kusaka 2015-09-10

This book provides a gentle introduction to equilibrium statistical mechanics. The particular aim is to fill the needs of readers who wish to learn the subject without a solid background in classical and quantum mechanics. The approach is unique in that classical mechanical formulation takes center stage. The book will be of particular interest to advanced undergraduate and graduate students in engineering departments.

Satya Prakash's Modern Inorganic Chemistry - R D Madan 2019

Satya Prakash's Modern Inorganic Chemistry is a treatise on the chemistry of elements on the basis of latest theories of Chemistry. Initial chapters are devoted to the study of fundamentals of Chemistry such as structure of atom, periodic classification of elements, chemical bonding and radioactivity, to name a few. It further graduates to complex discussions not only on extraction, properties and uses of the elements but also on preparation, properties, uses and structure of their important compounds. Chemistry of elements and their compounds have been explained on the basis of their position in the long form of periodic table and their electronic configurations/structures. Special emphasis has been put on the discussion of the correlation between the structure and properties of elements/ compound. The book caters to the requirements of Bachelor in Science (Pass) courses. With detailed discussion on several advanced topics, the students of

Bachelor in Science (Honours) and Masters in Science would also find it extremely useful.

Statistical Mechanics - Donald Allan McQuarrie 2003

Topics In Statistical Mechanics (Second Edition) - Brian Cowan 2021-07-23

Building on the material learned by students in their first few years of study, Topics in Statistical Mechanics (Second Edition) presents an advanced level course on statistical and thermal physics. It begins with a review of the formal structure of statistical mechanics and thermodynamics considered from a unified viewpoint. There is a brief revision of non-interacting systems, including quantum gases and a discussion of negative temperatures. Following this, emphasis is on interacting systems. First, weakly interacting systems are considered, where the interest is in seeing how small interactions cause small deviations from the non-interacting case. Second, systems are examined where interactions lead to drastic changes, namely phase transitions. A number of specific examples is given, and these are unified within the Landau theory of phase transitions. The final chapter of the book looks at non-equilibrium systems, in particular the way they evolve towards equilibrium. This is framed within the context of linear response theory. Here fluctuations play a vital role, as is formalised in the fluctuation-dissipation theorem. The second edition has been revised particularly to help students use this book for self-study. In addition, the section on non-ideal gases has been expanded, with a treatment of the hard-sphere gas, and an accessible discussion of interacting quantum gases. In many cases there are details of Mathematica calculations, including Mathematica Notebooks, and expression of some results in terms of Special Functions.

ELEMENTS OF SOLID STATE PHYSICS - J.P. SRIVASATAVA 2014-12-11

This revised and updated Fourth Edition of the text builds on the strength of previous edition and gives a systematic and clear exposition of the fundamental principles of solid state physics. The text covers the topics, such as crystal structures and chemical bonds, semiconductors, dielectrics, magnetic materials, superconductors, and nanomaterials. What distinguishes this text is the clarity and precision with which the author discusses the principles of physics, their relations as well as their applications. With the introduction of new sections and additional information, the fourth edition should prove highly useful for the students. This book is designed for the courses in solid state physics for B.Sc. (Hons.) and M.Sc. students of physics. Besides, the book would also be useful to the students of chemistry, material science, electrical/electronic and allied engineering disciplines. New to the Fourth Edition • Solved examples have been introduced to explain the fundamental principles of physics. • Matrix representation for symmetry operations has been introduced in Chapter 1 to enable the use of Group Theory for treating crystallography. • A section entitled 'Other Contributions to Heat Capacity', has been introduced in Chapter 5. • A statement on 'Kondo effect (minimum)' has been added in Chapter 14. • A section on 'Graphenes' has been introduced in Chapter 16. • The section on 'Carbon Nanotubes', in Chapter 16 has been revised. • A "Lesson on Group Theory", has been added as Appendix.

Mechanics - DS Mathur 2000-10

The book presents a comprehensive study of important topics in Mechanics of pure and applied sciences. It provides knowledge of scalar and vector in optimum depth to make the students understand the concepts of Mechanics in simple, coherent and lucid manner and grasp its principles & theory. It caters to the requirements of students of B.Sc. Pass and Honours courses. Students of engineering disciplines and the ones aspiring for competitive exams such as AIME and others, will also find it useful for their preparations.

Indian Book Industry - 1988

Understanding Host-Microbiome Interactions - An Omics Approach - Ravindra Pal Singh 2017-09-01

This book offers up-to-date information on different microbiomes, their community composition and interactive functions with the host, bringing together information from diverse research reports to provide an overview of the rapid developments in meta-omics technologies. It is a valuable resource for scientists, researchers, postgraduate and graduate students interested in understanding the impact and importance of next generation sequencing technologies on different hosts and their microbiomes.

Annual Report - Bhabha Atomic Research Centre 1990

Handbook of Porous Carbon Materials - Andrews Nirmala Grace 2023-03-06

This handbook summarizes the current advancements and growth in sustainable carbonaceous porous materials for fabrication and revival of energy devices, fuel cells, sensors technology, solar cell technology, stealth technology in addition to biomedical applications. It also covers the potential applications of carbon materials in various fields such as chemical, engineering, biomedical and environmental sciences. It also confers the prospective utilization of 2D and 3D hierarchical porous carbon in different interdisciplinary engineering applications. The book discusses major challenges faced in the development of cost-effective future energy storage strategies and provides effective solutions for improvement in the performance of carbon-based materials. Given the content, this handbook will be useful for students, researchers and professionals working in the area of material chemistry and allied fields.

Acta Ciencia Indica - 1996

Indian Books - 1972

NASA Glenn Coefficients for Calculating Thermodynamic Properties of Individual Species - Bonnie J. McBride 2002

International Conference on Advances in the Theory of Ironmaking and Steelmaking (ATIS 2009), December 09-11, 2009 - Govind S. Gupta 2009

Contributed articles presented in the International Conference on Advances in the Theory of Ironmaking and Steelmaking; organized by the Dept. of Material Engineering, IISc., Bangalore.

Advanced Inorganic Chemistry - Volume I - Satya Prakash et al. 2000-10

Advanced Inorganic Chemistry - Volume I is a concise book on basic concepts of inorganic chemistry. It acquaints the students with the basic principles of chemistry and further dwells into the chemistry of main group elements and their compounds. It primarily caters to the undergraduate courses (Pass and Honours) offered in Indian universities.

(Free Sample) General Science & Technology for Civil Services PT & Mains, State PSC, CDS, NDA, SSC, & other UPSC Exams 2nd Edition - Satya Prakash 2019-03-26

The thoroughly Revised & Update 2nd Edition of the book General Science & Technology for Civil Services PT & Mains, State PSC, CDS, NDA, SSC, & other UPSC Exams been designed with special focus on IAS Prelims & Main Exams. The book is prepared as per the trend of questions asked in previous years question papers of various UPSC/ State PSC/ SSC exams. • In nutshell the book consists of complete theory of Physics, Chemistry, Biology and Technology with MCQ Exercise including past questions of various exams. • The book

also covers past questions of IAS Mains GS III and various State PSC exams. • The book also covers Technology in the development of India and its future prospects in the field of research. The part deals with Energy, Nuclear Technology, Information Technology, Space research, Communication and Defence. • The book is empowered with a variety of questions (Simple MCQs, Statement Based MCQs, Match the column MCQs, Assertion-Reason MCQs) and thus more than 3800 questions are included in the book. Solutions are also provided in the book. • Past MCQs of last ten year questions of various competitive exams have also been included in the book.

A Textbook of Physical Chemistry - A. S. Negi 1985

Written primarily to meet the requirements of students at the undergraduate level, this book aims for a self-learning approach. The fundamentals of physical chemistry have been explained with illustrations, diagrams, tables, experimental techniques and solved problems.

Advanced Inorganic Chemistry - Volume II - Satya Prakash et al. 2000-10

Advanced Inorganic Chemistry - Volume II is a concise book on basic concepts of inorganic chemistry. Beginning with Coordination Chemistry, it presents a systematic treatment of all Transition and Inner-Transition chemical elements and their compounds according to the periodic table. Special topics such as Pollution and its adverse effects, chromatography, use of metal ions in biological systems, to name a few, are discussed to provide additional relevant information to the students. It primarily caters to the undergraduate courses (Pass and Honours) offered in Indian universities.

Thermodynamics and Statistical Physics - J. P. Agarwal 1993

Heat and Thermodynamics - Brijlal 2001-01-01

Indian Journal of Pure & Applied Physics - 2002-07

Basic Research Advancement for Algal Biofuels Production - Neha Srivastava 2023-02-10

The edited book presents sustainable adopting options in basic research for improving algal biofuels production. This book is probably first book on algal biofuels which is focused on improving the primary basic research to enhance mass scale technological production of algal biofuels. The book explores significance of basic bench top research to increase pilot scale production of algal biofuels. The books also targeting the most sustainable and economical algal biofuels option with in depth details. Further, it highlights the existing roadblock, their analysis and eco-friendly solution to control them in most greenery way. This book is highly useful for academician, researchers and industries professionals and of high interest for students of bioenergy, sustainable practices and renewable energy.