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QUANTUM MECHANICS S. Chand Publishing

Primarily intended for the undergraduate students of mathematics, physics and engineering, this text gives in-depth coverage of differential equations and the methods for solving them. The book begins with the definitions, the physical and geometric origins of differential equations, and the methods for solving the first order differential equations. Then it goes on to give the applications of these equations to such areas as biology, medical sciences, electrical engineering and economics. The text also discusses, systematically and logically, higher order differential equations and their applications to telecommunications, civil engineering, cardiology and detection of diabetes, as also the methods of solving simultaneous differential equations and their applications. Besides, the book

provides a detailed discussion on Laplace transforms and their applications, partial differential equations and their applications to vibration of stretched string, heat flow, transmission lines, etc., and calculus of variations and its applications. The book, which is a happy fusion of theory and application, would also be useful to postgraduate students. NEW TO THIS EDITION • New sections on: (a) Equations reducible to linear partial differential equations (b) General method for solving the second order non-linear partial differential equations (Monge's Method) (c) Lagrange's equations of motion • Number of solved examples in Chapters 5, 7, 8, 9 and 10.

Introduction to the Theory of Collisions of Electrons with Atoms and Molecules S. Chand Publishing

Designed to serve as a textbook for postgraduate students of physics and chemistry, this second edition improves the clarity of treatment, extends the range of topics, and includes more worked examples with a view to providing all the material needed for a course in molecular spectroscopy—from first principles to

the very useful spectral data that comprise figures, charts and tables. To improve the conceptual appreciation and to help students develop more positive and realistic impressions of spectroscopy, there are two new chapters—one on the spectra of atoms and the other on laser spectroscopy. The chapter on the spectra of atoms is a detailed account of the basic principles involved in molecular spectroscopy. The chapter on laser spectroscopy covers some new experimental techniques for the investigation of the structure of atoms and molecules. Additional sections on interstellar molecules, inversion vibration of ammonia molecule, fibre-coupled Raman spectrometer, Raman microscope, supersonic beams and jet-cooling have also been included. Besides worked-out examples, an abundance of review questions, and end-of-chapter problems with answers are included to aid students in testing their knowledge of the material contained in each chapter. Solutions manual containing the complete worked-out solutions to chapter-end problems is available for instructors.

Solid State Physics and Electronics S. Chand Publishing
Aims to show graduate students and researchers the vital benefits of integrating mathematics into their study and experience of the physical world. This book details numerous topics from the frontiers of modern physics and mathematics such as convergence, Green functions, complex analysis, Fourier series and Fourier transform, tensors, and others.

Heat Thermodynamics and Statistical Physics Disha Publications
The book is all about concern to Indian Science: “The standard of science education is declining alarmingly. The best minds are not turning to science, and those who do, do not remain in science.

The Indian contribution to basic sciences in global context is reducing both in quality and quantity. What are the remedial measures?” It is strongly felt that there is an urgent need to take historic political decisions and to move fast to reverse the situation, the collective efforts of all akin to Bosonic character.
Horizons of the Mind. A Tribute to Prakash Panangaden PHI Learning Pvt. Ltd.

This book describes the recent evolution of solid-state physics, which is primarily dedicated to examining the behavior of solids at the atomic scale. It also presents various state-of-the-art reviews and original contributions related to solid-state sciences. The book consists of four sections, namely, solid-state behavior, metastable materials, spintronics materials, and mechanics of deformable bodies. The authors’ contributions relating to solid-state behavior deal with the performance of solid matters pertaining to quantum mechanics, physical metallurgy, and crystallography. The authors’ contributions relating to metastable materials demonstrate the behavior of amorphous/bulk metallic glasses and some nonequilibrium materials. The authors’ contributions relating to spintronic materials explain the principles and equations underlying the physics, transport, and dynamics of spin in solid-state systems. The authors’ contributions relating to the mechanics of deformable bodies deal with applications of numeric and analytic solutions/models for solid-state structures under deformation. Key Features: Issues in solid-state physics, Lagrangian quantum mechanics, Quantum and thermal behavior of HCP crystals, Thermoelectric properties of semiconductors, Bulk metallic glasses and metastable atomic density determination, Applications of spintronics and Heusler

alloys, 2D elastostatic, mathematical modeling and dynamic stiffness methods on deformable bodies.

Encyclopaedia of Mathematical Physics New Age International

An understanding of the collisions between micro particles is of great importance for the number of fields belonging to physics, chemistry, astrophysics, biophysics etc. The present book, a theory for electron-atom and molecule collisions is developed using non-relativistic quantum mechanics in a systematic and lucid manner. The scattering theory is an essential part of the quantum mechanics course of all universities. During the last 30 years, the author has lectured on the topics presented in this book (collisions physics, photon-atom collisions, electron-atom and electron-molecule collisions, "electron-photon delayed coincidence technique", etc.) at many institutions including Wayne State University, Detroit, MI, The University of Western Ontario, Canada, and The Meerut University, India. The present book is the outcome of those lectures and is written to serve as a textbook for post-graduate and pre-PhD students and as a reference book for researchers.

(Free Sample) Bharatiya Itihaas avum Kala Sanskriti Compendium for IAS Prelims Samanya Adhyayan Paper 1 & State PSC Exams 3rd Edition John Wiley & Sons

Mathematical Physics

Thermodynamics, Statistical Physics, and Kinetics Springer

Science & Business Media

An understanding of the collisions between micro particles is of great importance for the number of fields belonging to physics, chemistry, astrophysics, biophysics etc. The present book, a theory for electron-atom and molecule collisions is developed

using non-relativistic quantum mechanics in a systematic and lucid manner. The scattering theory is an essential part of the quantum mechanics course of all universities. During the last 30 years, the author has lectured on the topics presented in this book (collisions physics, photon-atom collisions, electron-atom and electron-molecule collisions, "electron-photon delayed coincidence technique", etc.) at many institutions including Wayne State University, Detroit, MI, The University of Western Ontario, Canada, and The Meerut University, India. The present book is the outcome of those lectures and is written to serve as a textbook for post-graduate and pre-PhD students and as a reference book for researchers.

Solid State Physics Springer Nature

This textbook is aimed at advanced undergraduate and graduate students interested in learning the fundamental mathematical concepts and tools widely used in different areas of physics. The author draws on a vast teaching experience, and presents a comprehensive and self-contained text which explains how mathematics intertwines with and forms an integral part of physics in numerous instances. Rather than emphasizing rigorous proofs of theorems, specific examples and physical applications (such as fluid dynamics, electromagnetism, quantum mechanics, etc.) are invoked to illustrate and elaborate upon the relevant mathematical techniques. The early chapters of the book introduce different types of functions, vectors and tensors, vector calculus, and matrices. In the subsequent chapters, more advanced topics like linear spaces, operator algebras, special functions, probability distributions, stochastic processes, analytic functions, Fourier series and integrals, Laplace transforms,

Green's functions and integral equations are discussed. The book also features about 400 exercises and solved problems interspersed throughout the text at appropriate junctures, to facilitate the logical flow and to test the key concepts. Overall this book will be a valuable resource for a wide spectrum of students and instructors of mathematical physics.

DIFFERENTIAL EQUATIONS AND THEIR APPLICATIONS

Springer

Although ideas from quantum physics play an important role in many parts of modern mathematics, there are few books about quantum mechanics aimed at mathematicians. This book introduces the main ideas of quantum mechanics in language familiar to mathematicians. Readers with little prior exposure to physics will enjoy the book's conversational tone as they delve into such topics as the Hilbert space approach to quantum theory; the Schrödinger equation in one space dimension; the Spectral Theorem for bounded and unbounded self-adjoint operators; the Stone-von Neumann Theorem; the Wentzel-Kramers-Brillouin approximation; the role of Lie groups and Lie algebras in quantum mechanics; and the path-integral approach to quantum mechanics. The numerous exercises at the end of each chapter make the book suitable for both graduate courses and independent study. Most of the text is accessible to graduate students in mathematics who have had a first course in real analysis, covering the basics of L^2 spaces and Hilbert spaces. The final chapters introduce readers who are familiar with the theory of manifolds to more advanced topics, including geometric quantization.

Science Reporter PHI Learning Pvt. Ltd.

The book is an introduction to the rapidly emerging field of fiber optic sensors that is having significant impact upon areas such as guidance and control, structural monitoring, process control, biotechnology, geographical information systems and medicine.
Indian Book Industry PHI Learning Pvt. Ltd.

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.

Indian Books in Print Disha Publications

This book is intended to provide an adequate background for various theoretical physics courses, especially those in classical mechanics, electrodynamics, quantum mechanics and statistical physics. Each topic is dealt with in a generally self-contained manner and the text is interspersed with a number of solved examples and a large number of exercise problems.

Mathematical Physics, 4th Edition Cambridge University Press
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.

Fiber Optic Sensors Vikas Publishing House

The Second Edition of this concise and compact text offers students a thorough understanding of the basic principles of quantum mechanics and their applications to various physical and chemical problems. This thoroughly class-texted material aims to bridge the gap between the books which give highly theoretical treatments and the ones which present only the descriptive accounts of quantum mechanics. Every effort has been made to make the book explanatory, exhaustive and student friendly. The text focuses its attention on problem-solving to accelerate the student's grasp of the basic concepts and their applications. What is new to this Edition : Includes new chapters on Field Quantization and Chemical Bonding. Provides new sections on Rayleigh Scattering and Raman Scattering. Offers additional worked examples and problems illustrating the various concepts involved. This textbook is designed as a textbook for postgraduate and advanced undergraduate courses in physics and chemistry. Solutions Manual containing the solutions to

chapter-end exercises is available for instructors. Solution Manual is available for adopting faculty. Click here to request...

CLASSICAL MECHANICS New India Publishing

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.

General physics, relativity, astronomy and mathematical physics and methods Springer Science & Business Media

Mathematics is an essential ingredient in the education of a student of mathematics or physics of a professional physicist, indeed in the education of any professional scientist or engineer. The purpose of Mathematical Physics is to provide a comprehensive study of the mathematics underlying theoretical

physics at the level of graduate and postgraduate students and also have enough depth for others interested in higher level mathematics relevant to specialized fields. It is also intended to serve the research scientist or engineer who needs a quick refresher course in the subject. The Fourth Edition of the book has been thoroughly revised and updated keeping in mind the requirements of students and the latest UGC syllabus.

Matrices and Tensors in Physics S. Chand Publishing
 Science Is The Sermon Of Today. In Every Walk Of Life, Since Childhood Till Old Age, Science Plays An Important Role In The Life Of Man. Basically, The Branch Of Physics Concerned With Mathematical Calculations And Application Is Known As Mathematical Physics. This Has Played Vital Role In The Advancement Of Science And Technology. This Encyclopaedic Work On Mathematical Physics Encompasses Authoritative Information On All Vital Theories And Their Application In The Subject. Efforts Are Made To Incorporate Latest Information On Each Theme. Details Of The Volumes" Mathematical Physics" Mathematical Co- Ordinations And Variations.

Heat and Thermodynamics PHI Learning Pvt. Ltd.
 This book offers an in-depth presentation of the mechanics of particles and systems. The material is thoroughly class-tested and hence eminently suitable as a textbook for a one-semester course in Classical Mechanics for postgraduate students of physics and mathematics. Besides, the book can serve as a useful reference for engineering students at the postgraduate level. The book provides not only a complete treatment of classical theoretical physics but also an enormous number of

worked examples and problems to show students clearly how to apply abstract principles and mathematical techniques to realistic problems. While abstraction of theory is minimized, detailed mathematical analysis is provided wherever necessary. Besides an all-embracing coverage of different aspects of classical mechanics, the rapidly growing areas of nonlinear dynamics and chaos are also included. The chapter on Central Force Motion includes topics like satellite parameters, orbital transfers and scattering problem. An extensive treatment on the essentials of small oscillations which is crucial for the study of molecular vibrations is included. Rigid body motion and special theory of relativity are also covered in two separate chapters.

Introductory Statistical Mechanics Universities Press

This book sets out to demonstrate the purpose and critical approach that should be made to all experimental work in physics. It does not describe a systematic course in practical work. The present edition retains the basic outlook of earlier editions, but modifications have been made in response to important changes in computational and experimental methods in the past decade. The text is in three parts. The first deals with the statistical treatment of data, and here the text has been extensively revised to take account of the now widespread use of electronic calculators. The second deals with experimental methods, giving details of particular experiments that demonstrate the art and craft of the experimenter. The third part deals with such essential matters as keeping efficient records, accuracy in arithmetic, and writing good, scientific English.

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