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For Engineers

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Refresher Course in B.Sc.Physics (Vol . II)

Atomic and Nuclear Physics

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For the Students of B.E., B.Tech., B.Sc. and A.M.I.E

By Demystifying Theories of Relativity and Quantum Mechanics

Properties of Matter

Principles of Modern Physics

A Textbook of Engineering Physics (Kerala)

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the book has been revised to include the
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This book is a collection of fourteen essays
that describe an inspiring journey through
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What is our place in the universe and what
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we exist for a brief amount of time. In an
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in this work address the big questions of
what the universe is, how it came into
being, and where it may be heading. This
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and cosmology as well as a philosophical
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imagination.

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Mechanics Section III Atomic Physics
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Nuclear Physics Section VI Solid State
Physics Section VII Solid State Devices
Section VIII Electronics Index
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Publishing
This book "Nuclear Physics" has been
written for Physics major students of all

Indian universities. The subject matter has been thoroughly revised in accordance with the recent UGC syllabus meant for all Indian universities. In preparing the text, special care has been taken to present the topics in a coherent, simple and straightforward manner. SI units have been used throughout this book. Numerical problems are solved in each chapter wherever necessary for the better understanding of the subject. Exercises including problems have been given at the end of each chapter. Special care has been taken to explain the chapters on theory of relativity and quantum mechanics with illustrations, suitable examples and problems so that the students can understand relativity and quantum mechanics without difficulty.

Refresher Course in B.Sc. Physics (Vol . II)
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This book has been written for the students of B.Sc., Physics of various Indian Universities. The book covers the syllabi, prescribed by Madras, Bharathiyar, Bharathidhasan, Madurai Kamaraj and Manonmaniam Sundaranar Universities. SI System of Units has been used throughout the text. Proper care has been taken in

dealing with the subject with modern outlook. A large number of questions and problems have been given at the end of each Chapter. Students should attempt to tackle them properly for better insight and understanding of the subject.

Atomic and Nuclear Physics MJP Publisher
The eighteenth edition of this well-known textbook continues to provide a thorough understanding of the principles of modern physics. It offers a detailed presentation of important topics such as atomic physics, quantum mechanics, nuclear physics, solid state physics and electronics. The concepts are exhaustively presented with numerous examples and diagrams which would help the students in analysing and retaining the concepts in an effective manner. This textbook is a useful resource for undergraduate students and will also serve as a reference text for postgraduate students.

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REVISED AS PER UGC MODEL

CURRICULUM FOR B.Sc. (PASS/HONS.) OF ALL INDIAN UNIVERSITIES

For the Students of B.E., B.Tech., B.Sc. and A.M.I.E S. Chand Publishing
Although Concepts of Modern Physics was the first book covering the syllabi of Punjab Technical University, Jalandhar and it was accepted whole-heartedly by students and teachers alike. However, due to the repeated changes of syllabi of P.T.U. as it being a new university, the book had to be revised and some of the chapters become redundant as these were replaced by new topics. Though the book was revised with the additional chapters, the discarded chapters also formed the part of the book.

By Demystifying Theories of Relativity and Quantum Mechanics S. Chand Publishing
FOR B.SC STUDENTS OF ALL INDIAN UNIVERSITIES

Properties of Matter Notion Press
"Mathematical Physics" has been written to provide the readers a clear understanding of the mathematical concepts which are an important part of modern physics. The textbook contains 49 chapters on all major topics in an exhaustive endeavour to cover syllabuses of all major universities.

Some of the important topics covered in these chapters are Vectors, Integration, Beta and Gamma functions, Differential Equations, Complex Numbers, Matrix and Determinants, and the Laplace transforms.

Principles of Modern Physics S. Chand Publishing

This book is written to meet the requirements of first semester B.Sc. Physics Major Students of Madras University, Chennai, Tamil Nadu. The subject matter in this book has been astutely developed keeping in view the actual difficulties faced by the students who hail mostly from rural areas of Tamil Nadu.

A Textbook of Engineering Physics (Kerala)
S. Chand Publishing

The present edition of the book is revised as per the UGC syllabus. Questions and problems at the end of each chapter have been up-dated. Many new solved examples are included in this edition. Certain topics have been added so that students from some universities where the syllabus has been modified and upgraded may benefit. Besides being a text book we hope that this benefits students appearing at the IAS, AMIE and other Competitive

Examinations.

MODERN PHYSICS FOR SCIENTISTS AND ENGINEERS Rastogi Publications
REVISED AS PER UGC MODEL
CURRICULUM FOR B.Sc. (PASS/HONS.) OF ALL INDIAN UNIVERSITIES

Modern Physics S. Chand Publishing
Bimal G's book 'Solving the 111-Year-Old Riddle' opens an unexplored window of physics for the readers. Through this book, the author has aimed to solve the riddles generated by the theories of relativity and quantum mechanics. He believes that something is oddly wrong with the explanations and interpretations of these most celebrated theories even though the equations and its predictions are perfect and powerful. Puzzling paradoxes and logic-defying ideas had confounded the realm of physics ever since the formulation of special theory of relativity in 1905. By flouting reality, the theory of quantum mechanics too challenged common sense. Both these theories failed to give rational explanations to various natural phenomena. This book is a bold attempt to demystify the theories of relativity and quantum mechanics, which seem besotted with mathematical

formalism than logical reasoning. It seeks to unite the two strong pillars of physics, fix the inconsistencies between them, and fill in the missing link by giving a new avatar to absolute space and time. In the process, the author puts forth a revolutionary new theory that removes paradoxes in the realm of physics, redefines the puzzling inertia and explains the riddling dark matter & dark energy along with other natural phenomena and scientific experiments.

Refresher Course in B.Sc. Physics (Vol . II)
Alpha Science Int'l Ltd.

For Class XII Senior Secondary Certificate Examinations of C.B.S.E., other Boards of Education and various Engineering Entrance Examinations.

For B. Sc. Physics Students of All Indian Universities S. Chand Publishing
the book has been revised to include the postgraduate physics syllabi of Indian Universities in addition to the undergraduate honours syllabi covered in the previous edition. Apart from the new addition made in the existing chapters have been added in this edition to deal with the quantum mechanical theories of atomic and molecular structure.

Modern Physics S. Chand Publishing
The Present book S.Chand's Principle of Physics is written primarily for the students preparing for CBSE Examination as per new Syllabus. Simple language and systematic development of the subject matter. Emphasis on concepts and clear mathematical derivations

Concepts of Modern Engineering Physics
PHI Learning Pvt. Ltd.

Principles of Modern Physics covers important developments in physics during the twentieth century. Beginning with the development of the quantum concept and

radiation laws, followed by Einstein's special relativity, it covers atomic structure, basics of spectra, basic (non relativistic) quantum mechanics with an introduction to Dirac's relativistic wave equation and the problem of hydrogen atom. This follows the statistical distribution laws, X-rays and physics of solids, their imperfections, magnetic properties and superconductivity (including newly discovered high T_c superconductors), Zeeman and Stark effects, Lasers, nuclear physics, radio-activity, nuclear fission and fusion, particle accelerators and detectors. It features a

discussion on Universe (including stellar evolution Chandrasekhar limit, black holes and big-bang theory), elementary particles (including tau-theta puzzle, SU(2) and SU(3) symmetry, the Eightfold- way, ...
Modern Physics S. Chand Publishing
In This edition of the book, only minor changes have been made in some chapters. In the chapter on Nuclear Models (Ch. IX), the discussions on the individual particle model has been shortened to some extent and the relevant reference have been added where the readers can get the details.

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