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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

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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.

The book in its present form is due to my interaction with the students for quite a long time. It had been my long-cherished desire to write a book covering most of the topics that form the syllabi of the Engineering and Science students at the degree level. Many students, although able to understand the various topics of the books, may not be able to put their knowledge to use. For this purpose a number of questions and problems are given at the end of each chapter.

Interference | Diffraction | Polarization | Lasers | Fibreoptics | Simple Harmonic Motion | Wave Motion | Ultrasonics And Acoustics | X-Rays | Electronic configuration | General Properties Of The Nucleus | Nuclear Models | Natural Radioactivity | Nuclear reactions And Artificial Radioactivity | Nuclear Fission And fusion | Crystal Structure | Band Theory Of Solids | Metals, Insulators And Semiconductors | Magnetic And dielectric Properties Of Materials | Maxwell's Equations | Matter Waves And Uncertainty Principle | Quantum theory | Super-Conductivity | Statistics And Distribution laws | Scalar And Vector Fields

Over the course of the past two to three decades, new tools of presentation and mathematical treatment have emerged and the subject matter of quantum mechanics has gone through significant changes. A Textbook on Modern Quantum Mechanics presents the selected elementary, intermediate, and advance topics with rejuvenated approach to the subject matter. Newly merged topics from contemporary physics and chemistry are included in the text as well as solved examples. The book covers: (i) fundamental discoveries that are the

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foundation of modern quantum mechanics; (ii) solution of Schrödinger's wave equation for 1D problems and their importance; (iii) matrix and vector formulation of quantum mechanics; (iv) transformations, symmetries, and conservation laws; (v) angular and spin momenta; (vi) solution of Schrödinger equation for central potentials; (vii) time-independent perturbation theory, variational method and WKB approximation; (viii) quantum theory of scattering; (ix) many-particle systems and their quantum mechanical treatments; (x) time-dependent perturbations and the interaction of fields with matter; (xi) relativistic quantum mechanics; and (xii) quantization of fields and the second quantization. Key Features: It provides everything a student needs to know for succeeding at all levels of the undergraduate and graduate studies. It covers most of the topics that are taught under (a) elementary, (b) intermediate, and (c) advance courses of quantum mechanics at universities and colleges. It has detailed and elegant mathematical treatment with contemporary style of interpretation and presentation in simple English. Solved examples and unsolved exercises that are part of each chapter to consolidate the readers' understanding of fundamental concepts. The subject matter of the book is well tested on the students taught by the author over a period of 30 years. This is a valuable textbook for students pursuing Bachelor of Science, Master of Science, and Doctor of Philosophy (PhD) degrees in the subjects of Physics, Chemistry, and materials science in India, South Asian countries, the United States, and Europe.

The book in present form is due to the outcome of excellent received for the Author's Book "Modern Engineering Physics" which is prescribed in M.D. University, Rohtak and Kurushetra university and other universities of Haryana. In

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order to make the book more useful and strictly as per the syllabi of Haryana Universities, most of the topics have been revised

Engineering Physics is designed to cater to the needs of first year undergraduate engineering students. Written in a lucid style, this book assimilates the best practices of conceptual pedagogy, dealing at length with various topics such as crystallography, principles of quantum mechanics, free electron theory of metals, dielectric and magnetic properties, semiconductors, nanotechnology, etc.

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Interference
Unit 2: Diffraction And Polarization
Diffraction
Polarization
Unit 3: Fields And Electrostatics
Scalar And Vector Fields
Electric Fields And Gauss'S Law
Maxwell'S Equations
Unit 4: Magnetic Properties Of Materials And X-Rays
Magnetic Properties Of Materials
X-Rays And Compton Effect
Unit 5: Quantum Theory And Lasers
Matter Waves And Uncertainty Principle
Quantum Theory
Lasers
Model Test Papers

A Textbook of Engineering Physics is written with two distinct objectives: to provide a single source of information for engineering undergraduates of different specializations and provide them a solid base in physics. Successive editions of the book incorporated topics as required by students pursuing their studies in various universities. In this new edition the contents are fine-tuned, modernized and updated at various stages.

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(MDU) and Kurushetra University, Kurushetra and other universities of Haryana. Many topics have been re-arranged and many more examples have been included to make the various articles and examples more lucid and care has been taken to include all the examples that have been set in various university examinations.

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