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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.

Mathematical Physics

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presentation style will definitely help you learn Optics & Modern Physics in a different way. The book has been written with a focus on NEW PATTERN OF IIT-JEE. Each chapter has exhaustive theory, well discussed numerous solved examples, Problem Solving Tips & Techniques, Brilliant Method of Analysis & Techniques and 4 levels of EXERCISES - 3 based on MCQ's (including new pattern) and the 4th exercise based on Subjective Problems (including Numeric Answer Type questions). The book also provides a REVISION CHAPTER, which includes Formulae, Important points and a Revision Exercise. DETAILED SOLUTIONS to the subjective problems are provided at the end of the Books.

Probing and controlling electrons and nuclei in matter at the attosecond timescale became possible with the generation of attosecond pulses by few-cycle intense lasers, and has revolutionized our understanding of atomic structure and molecular processes. This book provides an intuitive approach to this emerging field, utilizing simplified models to develop a clear understanding of how matter interacts with attosecond pulses of light. An introductory chapter outlines the structure of atoms and molecules and the properties of a focused laser beam. Detailed discussion of the fundamental theory of attosecond and strong-field physics follows, including the molecular tunnelling ionization model (MO-ADK theory), the quantitative rescattering (QRS) model, and the laser induced electronic diffraction (LIED) theory for probing the change of atomic configurations in a molecule. Highlighting the cutting-edge developments in attosecond and strong field physics, and identifying future opportunities and challenges, this self-contained text is invaluable for students and researchers in the field.

This comprehensive and self-contained text for researchers and professionals presents a detailed account of optical imaging from the viewpoint of both ray and wave optics.

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