



## A Textbook of Applied Physics, 2/e

A.K. Jha

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### About the Book

This book is meant to serve as a textbook of Physics for the undergraduate students of science and engineering. Exhausted treatment of topics in quantum mechanics, statistical mechanics, nuclear physics, electromagnetic theory, X-rays production, properties and applications and ultrasonics and accoustics of buildings have been presented. These topics have been presented in easy to understand and simple language. Large number of solved numericals have been included to give a quantitative idea of the subject. Short and long answer type questions and unsolved numericals have been given at the end of each chapter for practice.

New in this edition:

Four new chapters have been added, namely:

Physics of Semiconductors  
Dielectric, Ferroelectric and Piezoelectric Properties of Materials  
Superconductivity  
Nanomaterials

### Salient Features

- ▶ This second edition of the book has four new chapters, namely, Physics of Semiconductors, Dielectric, Ferroelectric and Piezoelectric Properties of Materials, Superconductivity, and Nanomaterials.
- ▶ All the laws, principles, postulates and relationships have been explained in detail, with step-by-step derivation appropriately.
- ▶ Provides a large number of solved examples in each chapter.
- ▶ Contains short and long answer type questions, and numerical exercises with answer key at the end of every chapter.

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### About the Author

**A.K. Jha** :- A.K. Jha, an honours graduate and postgraduate from University of Delhi, was awarded Ph.D. by I.I.T. Delhi in 1995. He was awarded Fellowship and Associateship by UGC and CSIR. He has more than 17 years of teaching experience. At present he is Professor & Head, Applied Sciences Department, Ambedkar Institute of Advanced Communication Technology & Research, Delhi. Earlier he has taught at Delhi Yechnological University (formerly Delhi College of Engineering). He is a life member of Materials Research Society of India and is actively involved in research in the fields of ferroelectric and superconducting materials. He has published more than 80 research papers in various international journals and international/national conference proceedings.