



Engineering Physics

Author :	A. B. Bhattacharya
ISBN 13 :	978-93-89139-07-5
ISBN 10 :	93-89139-07-4
E-ISBN 13 :	978-93-89139-07-5
Edition :	First
Pages :	686
Type of book :	Paperback
Weight (g) :	960.00
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 695.00
Categories :	Applied Sciences
Condition Type :	New
Country Origin :	India

Product Description

In this book titled 'Engineering Physics,' the authors have given sincere efforts to explain the concepts of Physics in a very judicial way for the Engineering students of different branches so that they can acquire a reasonably good knowledge on the subject without devoting much time. In order to implement it successfully, the authors have maintained the following two features throughout: 1. Learning objectives are outlined at the beginning of each chapter followed by their item-wise presentation lucidly for a better understanding of the readers. 2. Each chapter is enriched with solved numerical problems including exercises and supplementary problems for the routine practice helpful for the examinations.



Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: + +91-99109 09320

Table of Contents

SECTION I: INTRODUCTORY TO MECHANICS Chapter 1: Introductory Mathematical Concepts. **Chapter 2:** Newton's laws and central force Problems. **Chapter 3:** Motion of a Rigid Body. **Chapter 4:** Oscillations. **SECTION II: WAVES AND OPTICS Chapter 5:** Waves Motion. **Chapter 6:** Geometric Optics: The propagation of Light. **Chapter 7:** Wave Optics. **Chapter 8:** Polarization. **Chapter 9:** Lasers & Holography. **SECTION III: INTRODUCTION TO ELECTROMAGNETIC THEORY Chapter 10:** Electrostatics & Dielectrics. **Chapter 11:** Magnetostatics & Magnetic Properties. **Chapter 12:** Electromagnetic Induction & Faraday's Laws. **Chapter 13:** Maxwell's Equation & Electromagnetics Waves. **SECTION IV: QUANTUM MECHANICS FOR ENGINEERS Chapter 14:** Quantum Physics. **Chapter 15:** Quantum Mechanics. **Chapter 16:** Introduction to Molecular Bonding. **Chapter 17:** Statistical Mechanics. **Chapter 18:** Introduction to Solids.

Authors

A. B. Bhattacharya Prof. A. B. Bhattacharya, Pro-Vice-Chancellor of JIS University, did his M. Sc. and Ph. D. degree in Physics from the University of Calcutta. He did his Post-doc from the Massachusetts Institute of Technology, USA and subsequently joined in the Department of Physics, Kalyani University. He has published 256 Research papers in high-impact Journals and over 150 proceeding papers in conferences. He has successfully guided 24 scholars for their Ph.D. and has written a large number of invited articles in many Journals. He is the author of 29 textbooks written for engineering and science students and also for general readers from many reputed publishers like Infinity Science Press, Taylor & Francis, etc. International Institute of Success Awareness honored him with their most coveted Institutional and globally reputed "Glory of India Gold Medal" for remarkable contributions to India's national prestige. He is a Life Fellow of the Institution of Electronics and Telecommunication Engineers. **A. Nag** Dr. Atanu Nag did his M. Sc. in 2007 and Ph. D. in 2013 from the University of Kalyani. He has published over 50 Journal papers and 5 books for Science & Engineering students. Presently he is the Head and Associate Professor in the Department of Physics, Modern Institute of Engineering & Technology, Hooghly, West Bengal.

