

ಮಾದರಿ ಪಠ್ಯಕ್ರಮದ ಅನುಸಾರ ಎಐಸಿಟಿಇ ಶಿಫಾರಸು ಮಾಡಿರುವ ಪಠ್ಯಪುಸ್ತಕ

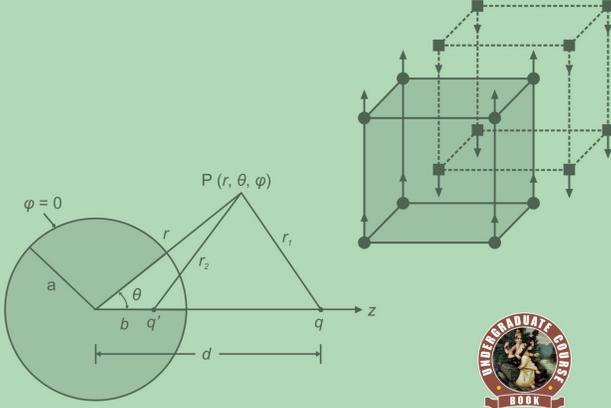
ಫಲತಾಂಶ ಆಧಾರಿತ ಶಿಕ್ಷಣದೊಂದಿಗೆ ಹೊಂದಿಸಲಾಗಿದೆ

ರಾಷ್ಟ್ರೀಯ ಶಿಕ್ಷಣ ನೀತಿ 2020

# ಭೌತಶಾಸ್ತ್ರ

ವಿದ್ಯುತ್ಕಾಂತೀಯ ಸಿದ್ಧಾಂತದ ಪರಿಚಯ

(ಲ್ಯಾಬ್ ಕೈಪಿಡಿಯೊಂದಿಗೆ)



ಎ. ಬಿ. ಭಟ್ಟಾಚಾರ್ಯ ಅತನು ನಾಗ್

## Physics (Introduction to Electromagnetic Theory) (with Lab Manual)

**Author :** A. B. Bhattacharya

**ISBN 13 :** 978-93-91505-86-8

**ISBN 10 :** 93-91505-86-4

**E-ISBN 13 :** 978-93-91505-86-8

**Edition :** 1

**Pages :** 320

**Type of book :** Paperback

**Weight (g) :** 430.00

**Year :** 2025

**Language :** Kannada

**Publisher :** Khanna Publishing House

**Categories :** [AICTE Prescribed Textbooks](#), [Ebooks](#), [Kannada Books](#)

**SKU :** 1725635397

**Condition Type :** New

**Country Origin :** India



**Khanna Publishing House**

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

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

---

## Product Description

---

Engineering Physics: Introduction to Electromagnetic Theory has been written for the first year students of B. Tech Engineering Degree Courses of all Indian Universities following the guideline and syllabus as recommended by AICTE. The book, written in a very simple and lucid way, will be very much helpful to reinforce understanding of different aspects to meet the engineering student's needs. Writing a text-cum manual of this category poses several challenges providing enough content without sacrificing the essentials, highlighting the key features, presenting in a novel format and building informative assessment. This book on engineering physics will prepare students to apply the knowledge of Electromagnetic Theory to tackle 21st century and onward engineering challenges and address the related questions. Some Salient Features of the Book: 1. Expose basic science to the engineering students to the fundamentals of physics and to enable them to get an insight of the subject. 2. To develop knowledge on critical questions, solved and supplementary problems covering all types of medium and advanced level problems in a very logical and systematic manner. 3. Some essential information for the users under the heading "know More" for clarifying some basic 4. Information as well as comprehensive synopsis of formulae for a quick revision of the basic principles. 5. Constructive manner of presentation so that an Engineering degree students can prepare to work in different sector or in national laboratories at the very forefront of technology.

---

## Table of Contents

---

**Foreword Acknowledgement Preface Outcome Based Education Course Outcomes Abbreviations and Symbols List of Figures Guidelines for Teacher Guidelines for Students Unit 1: Electrostatics in Vacuum. Unit 2: Electrostatics in Linear Dielectric Medium. Unit 3: Magnetostatics. Unit 4: Magnetostatics in Linear Dielectric Medium. Unit 5: Faraday's Law. Unit 6: Maxwell's Equations. Unit 7: Electromagnetic Waves. Table of Physical Constants Appendices Annexures References for Further learning CO and PO attainment Table Index**



---

## Authors

---

**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. **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.

---

