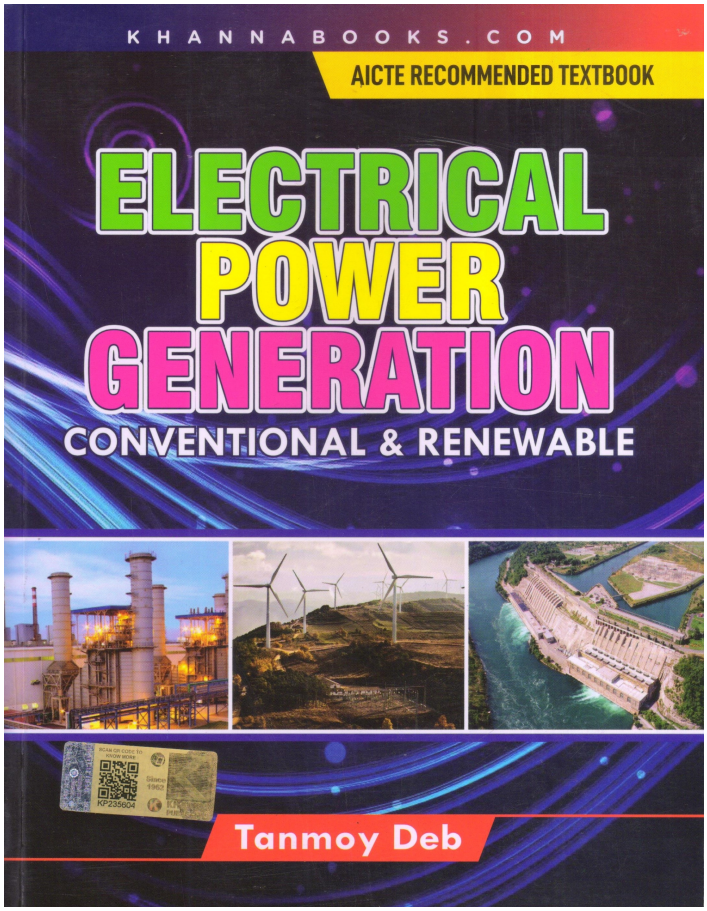

Electromagnetic Field Theory

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Product Description

This book is meant to cater the needs of the electrical. Electronics and communication engineering students as well as the faculty offering the courses on electromagnetic field theory or Electromagnetic Fields Waves. Electromagnetic Field Theory is an introductory textbook on electromagnetic fields written in an easily comprehensible and logical manner to give the basic concepts and principles of electromagnetic to the engineering and physics students. This subject is based on mathematical principles which are essential for a through understanding of the subject. It is useful for understanding the fundamentals of electromagnetic, Maxwell's Equations, plane electromagnetic waves, transmission lines and their applications. To facilitate understanding of the subject many solved and unsolved problems have been included. The book contains eight chapters. One can understand the concepts of electromagnetic fields even by self study of the book.

Table of Contents

Chapter 1: Introduction to EM Theory and necessary mathematics and Constants. **Chapter 2:** Vector Analysis. **Chapter 3:** Electrostatic Fields. **Chapter 4:** Steady Magnetic Fields. **Chapter 5:** Maxwell Equations. **Chapter 6:** Electromagnetic Field and waves. **Chapter 7:** Transmission Lines. **Chapter 8:** Wave Guides.

Author

Rishabh Anand Rishabh Anand received his Bachelor's degree B.E (Hons) in Electronics and Communication Engineering from Maharishi Dayanand University, Rohtak in 2006. The author is M. Tech. in Electronics and Communication Engineering from Veer Bahadur Singh Purvanchal University, Jaunpur in 2014, and MBA from Indian Institute of Management, Kozhikode in 2016. The Author is Program Diploma in Innovation Management from International Business Management Institute, Germany (Berlin) in 2020. The author has contributed to research publications in refereed, cited International Conferences and Journals, and attended many conferences, workshops, FDPs, and seminars. Also, he is the reviewer member of IJSDR Journal. He is a prolific author with 34 Text and Reference books to his credit, for B. Tech. (ECE/CSE/IT), M. Tech. (ECE/CSE/IT), BCA, MCA, and other courses of different Universities of India and overseas. His areas of interest include Software Project Management, Cloud Computing, Deep Learning, Tensor Flow, Python, R Programming and Machine Learning. He is currently working in ITES industry as a Global Service Delivery Manager. He is Project Management Professional (PMP)®, ITIL® Foundation Certificate in IT Service Management, PRINCE2® Practitioner Certification - Project Management, Scrum Master® (CSM®), Certified Six Sigma White Belt (CSSWB™), Lean Six Sigma White Belt Certified (LSSWBC™) and Certified Six Sigma Green Belt™ (CSSGB™). The author delivers lectures as Visiting Faculty (Assistant Professor) in the Global Institute of Technology and Management, Farrukh Nagar, Gurgaon.

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