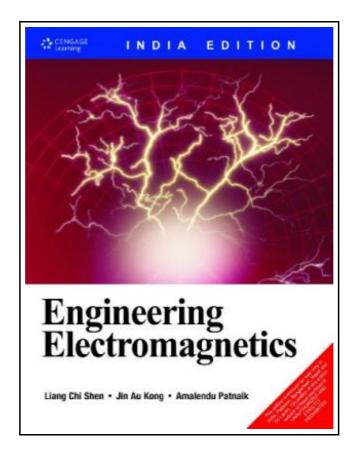
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2011. Paperback. Book Condition: New. 548 pages. English This textbook covers the fundamental concepts of static and dynamic electromagnetic fields and waves. It is designed to serve as a textbook for the course on Electromagnetic Theory taught to electrical, electronics and communication students in all engineering institutions in India. Its comprehensive approach to the subject and simple presentation will help students to grasp complex topics with ease. To make this book easily comprehensible and student friendly, the authors have organized the topics in a logical progression. This will allow students to first work with electromagnetic concepts involving relatively simple computational analysis and then move on to more complex topics and mathematical methods for analysis. In keeping with this student-friendly approach, the book begins with an introduction to complex vectors and Maxwell's equations and then moves on to discuss advanced topics such as uniform plane waves, waveguides and resonators, transmission lines, antennas, Rayleigh scattering, holography, Doppler's effect, electrostatic and magnetostatic fields, direct currents, solution techniques of Poisson and Laplace equations, and electroquasistatic and magnetoquasistatic fields. Each of these topics has been adequately covered in accordance with its relevance to the subject, making it a complete textbook for students. This book incorporates several computer-based problems, homework problems, end-of-chapter summaries, and a rich collection of real-world application examples, which include discussions on cellular phone and microwave exposure limits set by IEEE, safety concerns about electromagnetic fields from power lines, new and powerful magnets, and single-mode optical fibers.

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