



Elements of Engineering Electromagnetics (6th Edition)

By Nannapaneni Narayana Rao

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Editorial Review

From the Back Cover

This is a successful book with a versatile approach including thorough coverage of statics with an emphasis on the dynamics of engineering electromagnetics. It integrates practical applications, numerical details, and the thorough coverage of principles.

FEATURES/BENEFITS

- **NEW—Two-part coverage: Fundamental Elements, and Applied Elements**—Associates the chapters on Applied Elements with major technologies based on Maxwell's equations.
 - Serves the needs of twenty-first century electromagnetics.
- **NEW—Material on Crosstalk on Transmission Lines; Pulse Broadening in Dispersive Medium; and Finite-Difference Time-Domain Method.**
- **NEW—Review problems**—Follow homework problems in each chapter.
 - Serve as review of material covered in a chapter by integrating concepts introduced in more than one section of the chapter.
- **Uniform plane waves**—Presents topic immediately following Maxwell's equations chapters, which are introduced collectively, in integral form and then in differential form.
- **Comprehensive coverage of field and line topics**—Begins with p-n junction and circuit elements, progresses through transmission-line time-domain analysis, leading to interconnections between logic gates, and culminating in crosstalk on transmission lines.
- **Coverage of principles of guided waves developed in one chapter**—For both electronics and optoelectronics.
 - Confines the treatment to one-dimensional wave guides comprising parallel-plate metallic waveguides followed by dielectric slab waveguides.
- **Devotes a full chapter to pertinent topics of electronics and photonics**—Ch. 10 including two-dimensional metallic waveguides and optical fibers; interference and diffraction; and wave propagation in an anisotropic medium.
- **Focus on numerical methods**—Comprising the finite-difference method; method of moments; finite-element method; and finite-difference time-domain method.
- **Dynamic field approach**—Builds basic material upon time varying fields while retaining important topics of static fields.
- **Sinusoidal steady-state analysis of transmission lines.**
 - Familiarizes the reader with graphical and computer solutions.
- **Radiation introduction followed by basic concepts of antennas.**
 - Demonstrates for the reader the complete field solution to the Hertzian dipole field through the magnetic vector potential.
- **Solid pedagogy**—105 worked examples, 162 drill problems with answers, marginal notes, chapter summaries, and review questions.
- **Practical application discussions and experiment demonstrations.**

Users Review

From reader reviews:

Charlotte Maas:

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