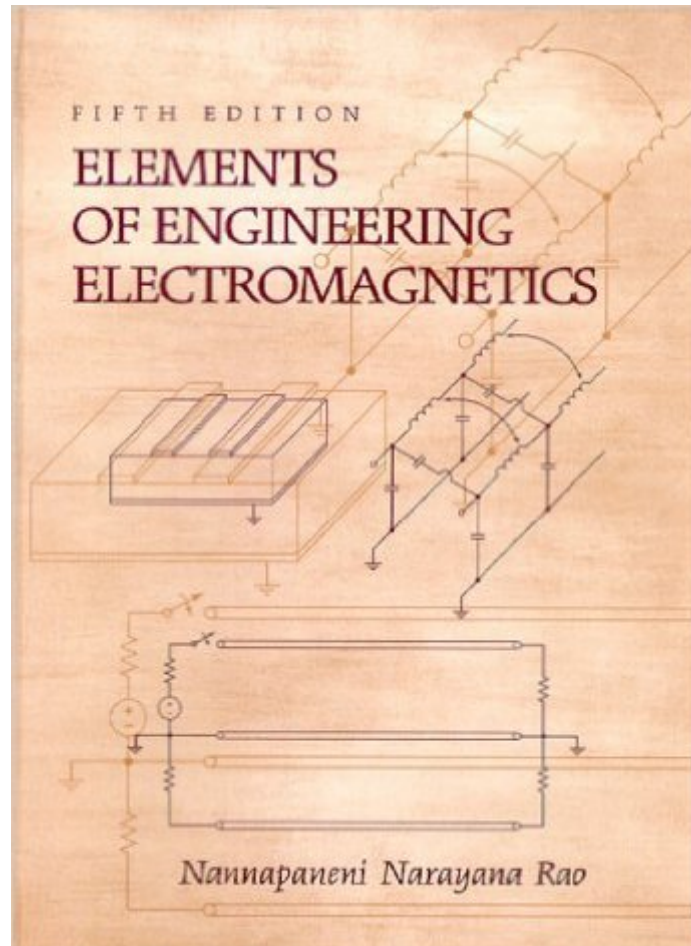


The book was found

# Elements Of Engineering Electromagnetics (5th Edition)



## Synopsis

For one/two-semester, junior/senior-level courses in Electromagnetics, Transmission Lines and Waveguides, and Electromagnetic Fields and Waves, in the departments of Electrical and Computer Engineering. First course in introductory electromagnetics required for electrical engineering and computer engineering students. Successful text 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.

## Book Information

Hardcover: 788 pages

Publisher: Prentice Hall; 5th edition (June 14, 1999)

Language: English

ISBN-10: 0130132012

ISBN-13: 978-0130132017

Product Dimensions: 1.5 x 8 x 10 inches

Shipping Weight: 2.8 pounds

Average Customer Review: 2.5 out of 5 stars [See all reviews](#) (15 customer reviews)

Best Sellers Rank: #1,125,071 in Books (See Top 100 in Books) #225 in [Books > Science & Math > Physics > Waves & Wave Mechanics](#) #290 in [Books > Textbooks > Engineering > Electrical & Electronic Engineering](#) #5474 in [Books > Engineering & Transportation > Engineering > Electrical & Electronics](#)

## Customer Reviews

Rao covers several advanced topics in a simple tutorial manner. Of course, if one is looking at E&M for the first time, his condensed style of the more elementary topics may not be as appreciated as if one is looking at E&M for the second (or third) time. However, Rao does cover most of the traditional first E&M course topics in an understandable way. In my opinion, where he excels is in taking more difficult but very useful topics that are unusual in an elementary course and presenting them in an understandable way, such as using the method-of-moments to calculate fringing fields of a capacitor, or outlining the basics of the finite element method, or calculating quasistatic expansions of distributed structures so they can be modeled as lumped element circuits, thereby illustrating the transition (as well as the frequency limitations) of the zero-dimensional circuit approach to the fields approach. If you are taking E&M for the first time, this book may be a bit more difficult than many out there, but if you familiarize yourself with it, I believe you will wind up using it

even when your course is over to help you answer some real life problems. Below are the chapter headings for the sixth edition from the publisher's website. I have owned the second and fifth edition, and they were really not very different. I. ESSENTIAL ELEMENTS FOR ELECTRICAL AND COMPUTER ENGINEERING. 1. Vectors and Fields. 2. Maxwell's Equations in Integral Forms. 3. Maxwell's Equations in Differential Form and Uniform Plane Waves in Free Space. 4. Fields and Waves in Material Media. 5. Electromagnetic Potentials and Topics for Devices, Circuits, and Systems. 6. Transmission-Line Essentials for Digital Electronics. II. ESSENTIAL/ELECTIVE ELEMENTS. 7.

[Download to continue reading...](#)

Elements of Engineering Electromagnetics (5th Edition) Elements of Engineering Electromagnetics (6th Edition) Fundamentals of Applied Electromagnetics (5th Edition) Engineering Electromagnetics and Waves (2nd Edition) Time Domain Electromagnetics (Academic Press Series in Engineering) Engineering Electromagnetics Structural Dynamics by Finite Elements (Prentice-Hall International Series in Civil Engineering and Engineering Mechanics) The Encyclopedia of Crystals, Herbs, and New Age Elements: An A to Z Guide to New Age Elements and How to Use Them Dynamics of Structures (5th Edition) (Prentice-Hall International Series I Civil Engineering and Engineering Mechanics) Systems Engineering and Analysis (5th Edition) (Prentice Hall International Series in Industrial & Systems Engineering) Fundamentals of Applied Electromagnetics (7th Edition) Fundamentals of Applied Electromagnetics (6th Edition) Field and Wave Electromagnetics (2nd Edition) Microstrip and Printed Antenna Design (Electromagnetics and Radar) Ultra-Wideband Short-Pulse Electromagnetics 4 (v. 4) Electromagnetics MATLAB-Based Electromagnetics Microwave Transmission Line Impedance Data (Electromagnetics and Radar) Stimson's Introduction to Airborne Radar (Electromagnetics and Radar) Ultra-Wideband, Short-Pulse Electromagnetics

[Dmca](#)