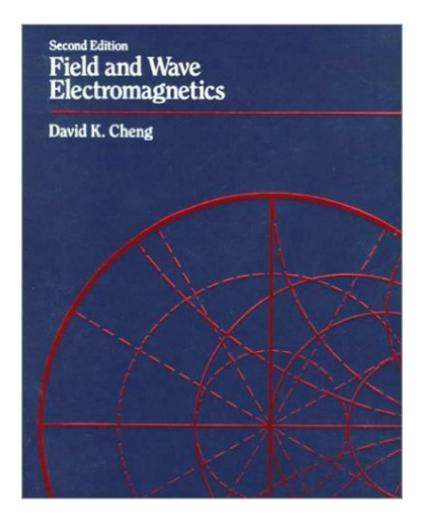
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# Field And Wave Electromagnetics (2nd Edition)





## Synopsis

Back Cover Field and Wave Electromagnetics, Second Edition features many examples of practical applications to give students an excellent physical -- as well as mathematical -- understanding of important concepts. These include applications drawn from important new areas of technology such as optical fibers, radome design, satellite communication, and microstrip lines. There is also added coverage of several new topics, including Hall effect, radar equation and scattering cross section, transients in transmission lines, waveguides and circular cavity resonators, wave propagation in the ionosphere, and helical antennas. New exercises, new problems, and many worked-out examples make this complex material more accessible to students.

### **Book Information**

Paperback: 703 pages Publisher: Addison-Wesley; 2nd edition (January 11, 1989) Language: English ISBN-10: 0201128195 ISBN-13: 978-0201128192 Product Dimensions: 7.5 x 1.6 x 8.9 inches Shipping Weight: 2.8 pounds (View shipping rates and policies) Average Customer Review: 4.4 out of 5 stars Â See all reviews (41 customer reviews) Best Sellers Rank: #61,552 in Books (See Top 100 in Books) #5 in Books > Engineering & Transportation > Engineering > Telecommunications & Sensors > Microwaves #9 in Books > Science & Math > Physics > Waves & Wave Mechanics #191 in Books > Engineering & Transportation > Engineering > Electrical & Electronics

#### **Customer Reviews**

Electromagnetism is a hard subject for many people, including myself. The best approach is to get a few good books on the subject rather than rely on one book. After doing a survey, I finally bought the following books suitable for my level: (i) Introductory Electromagnetics by Popovic and Popovic; (ii) Field and Wave Electromagnetics by Cheng; (iii) Electromagnetics with Applications by Kraus; (iv) Schaums Outline of Electromagnetics by Edminister. I give five stars to all these books. (There is another book which I will not review or identify, because it turned out to be unsatisfactory.)I am reviewing these four books in one go because they are interrelated. Each of these book is strong in its own unique area.Introductory Electromagnetics by Popovic and Popovic is the best of these book for gaining an intuitive understanding of the difficult subject of electromagnetism. Its clarity and

elegance reminds me of Feynman's Lectures in Physics. Every chapter is a work of inspiration. The carefully chosen examples are designed to impart understanding of electromagnetic principles rather than calculation skills. The book is excellent for those who are new to the subject. It is also excellent for those who have already learned some electromagnetics, but who feel that their understanding is still shaky.Field and Wave Electromagnetics by Cheng is the best of these books in terms of the mathematical development of electromagnetics. Although this approach may seem difficult at first glance, ironically the mathematical rigour makes the subject much easier to grasp. That is because mathematical precision goes a long way towards illuminating subtle principles of electromagnetism.

#### Download to continue reading...

Field and Wave Electromagnetics (2nd Edition) Engineering Electromagnetics and Waves (2nd Edition) Warman's Matchbox Field Guide: Values and Identification (Warman's Field Guides Matchbox: Values & Identification) 2nd (second) Revised Edition by Larson, Tom published by KP Books (2008) Fundamentals of Applied Electromagnetics (7th Edition) Fundamentals of Applied Electromagnetics (5th Edition) Elements of Engineering Electromagnetics (6th Edition) Fundamentals of Applied Electromagnetics (5th Edition) Elements of Engineering Electromagnetics (6th Edition) Elements of Engineering Electromagnetics (6th Edition) Elements of Engineering Electromagnetics (5th Edition) Microstrip and Printed Antenna Design (Electromagnetics and Radar) Microwave Transmission Line Impedence Data (Electromagnetics and Radar) Stimson's Introduction to Airborne Radar (Electromagnetics and Radar) Angle of Arrival Estimation Using Radar Interferometry (Electromagnetics and Radar) Time Domain Electromagnetics (Academic Press Series in Engineering) Engineering Electromagnetics Ultra-Wideband Short-Pulse Electromagnetics 4 (v. 4) Electromagnetics MATLAB-Based Electromagnetics Ultra-Wideband, Short-Pulse Electromagnetics Fundamentals of Electromagnetics with MATLAB Computational Electromagnetics (Texts in Applied Mathematics)

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