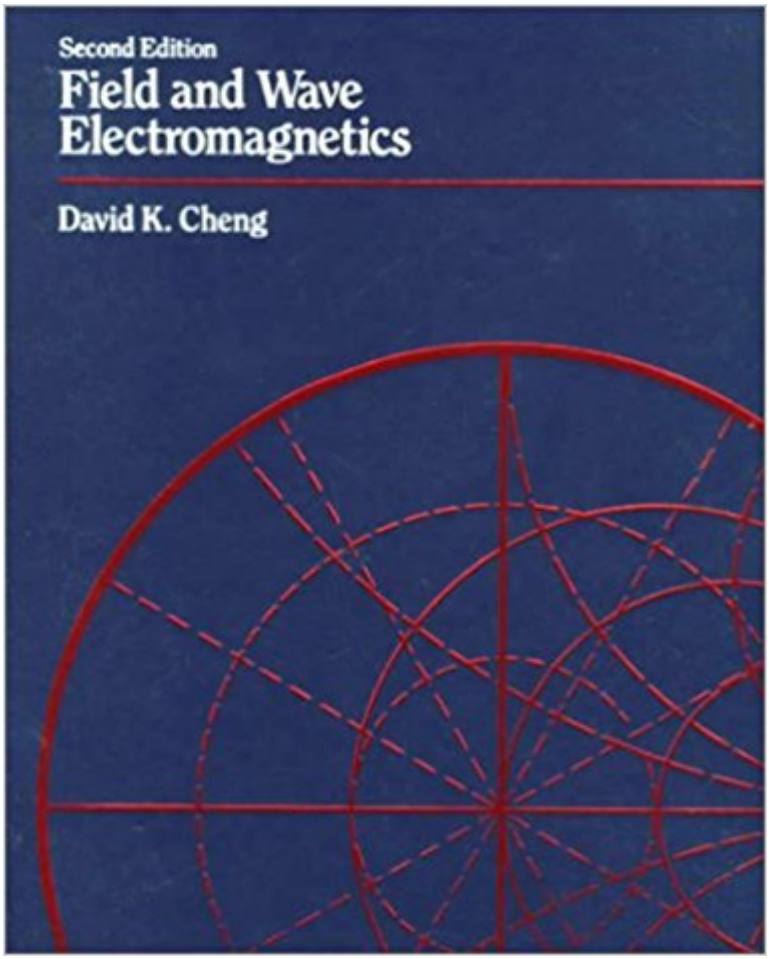
Field And Wave Electromagnetics (2nd Edition)



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

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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.