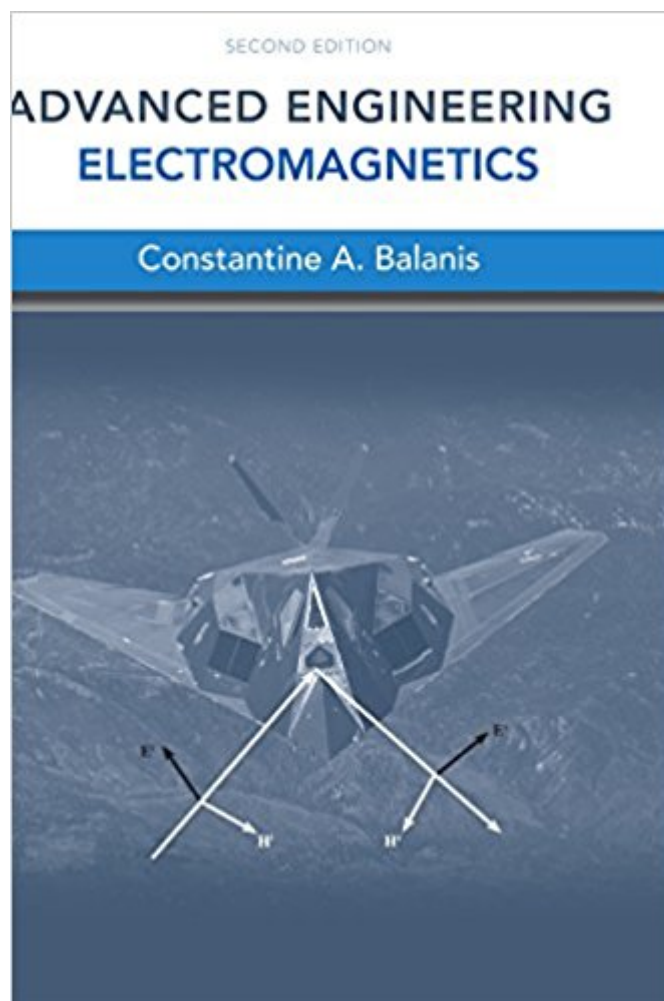


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# Advanced Engineering Electromagnetics



## Synopsis

Balanis's second edition of *Advanced Engineering Electromagnetics* is a global best-seller for over 20 years. It covers the advanced knowledge engineers involved in electromagnetic need to know, particularly as the topic relates to the fast-moving, continually evolving, and rapidly expanding field of wireless communications. The immense interest in wireless communications and the expected increase in wireless communications systems projects (antenna, microwave and wireless communication) points to an increase in the number of engineers needed to specialize in this field. In addition, the Book Companion Site contains a rich collection of multimedia resources for use with this text. Resources include: Ready-made lecture notes in Power Point format for all the chapters. Forty-nine MATLAB® programs to compute, plot and animate some of the wave phenomena. Nearly 600 end-of-chapter problems, that's an average of 40 problems per chapter (200 new problems; 50% more than in the first edition). A thoroughly updated Solutions Manual. 2500 slides for Instructors are included.

## Book Information

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Average Customer Review: 4.8 out of 5 stars 19 customer reviews

Best Sellers Rank: #82,964 in Books (See Top 100 in Books) #2 in Books > Science & Math > Physics > Engineering #52 in Books > Science & Math > Physics > Electromagnetism #4141 in Books > Textbooks > Science & Mathematics

## Customer Reviews

This book is an exhaustive resource for all things electromagnetics - especially as applied to engineering. The introductory chapters are well written and give nice insights into material properties and how those properties translate into the EM phenomena we observe. Free-space propagation, as well as waveguide modes for a variety of geometries, are also covered in depth. The book really shines with its treatment of diffraction, offering multiple methods and Matlab scripts for canonical problems (the book you buy may not come with the computer software, make sure to

check if that's something you need)

One of the first (if not the first) e/m texts to discuss, in detail, double-negative metamaterials, a topic which has caught my interest, Balanis is unique in covering a number of other topics: for instance reflection and transmission in layered media. The coverage on waveguides seems a little excessive for a basic e/m text, but it's nice to have all those formulas in one place. The new edition seems to have a lot more than the first, but is easier to handle - that edition seemed almost ready for two volumes. Balanis was the text used in the EE e/m course I took and I note a lot of familiar problems, some of which are very helpful in understanding concepts (unlike those in another text I'm thinking of, which makes each problem a hurdle to mount). I haven't tried the website but it looks exciting.

This book offers a comprehensive collection of subjects (from very basic to advanced ones) to be used by engineers that work on EM, mainly on high frequency EM fields. Many chapters cover subjects in a detailed way, with demonstrations and great variety of cases. It is a very good reference book to have on your hands.

I am an engineer working in electromagnetic effects. I have this in addition to several other references that I regularly use. I have used other books by Balanis for classes as well. This book develops topics in advanced EM very well.

The item arrived on time and the quality of product is good. No any problem can be found. Fantastic seller.

This book is difficult if you are using it to learn electromagnetics. Very advanced. But it is extremely useful as a reference book. Great addition to an engineers library.

Excellent textbook, I'm so lucky because our office is in the same building. The author has a personal magnetism

Newest edition includes excellent coverage of 'Metamaterials' with detailed coverage on boundary conditions on negative index materials, as well as updated coverage from first edition.

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