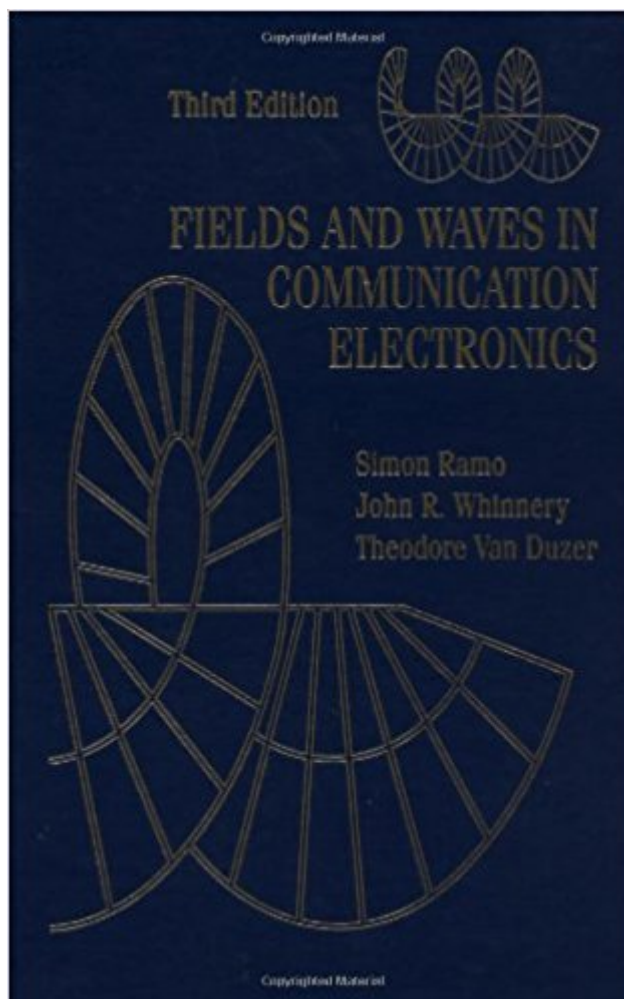


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# Fields And Waves In Communication Electronics



## Synopsis

This comprehensive revision begins with a review of static electric and magnetic fields, providing a wealth of results useful for static and time-dependent fields problems in which the size of the device is small compared with a wavelength. Some of the static results such as inductance of transmission lines calculations can be used for microwave frequencies. Familiarity with vector operations, including divergence and curl, are developed in context in the chapters on statics. Packed with useful derivations and applications.

## Book Information

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## Customer Reviews

Terrible book. Skips steps during derivations, problems at the end of the chapter need additional information to complete. Most people in my EM Theory class bought an additional book to read.

A very good book to have in the office when working on microwave transmission supports. I'm very happy about this purchase.

I used this book for a couple of my graduate level E&M classes. This book seems to be a good foundation for learning the theoretical in's and out's of E&M. That being said, it is great for graduate students and professors but not so great for real engineers. Now that I am a Systems (RF) Engineer, I have not found this book all that useful as a reference, simply because I have to go through tons of math just to get the answer I need. It is definitely not a "quick reference" book for the practicing

engineer, but rather a in depth mathematical look into E&M theory.

This is a good book for someone who already has taken some physics and electronics course. The examples are great and explained well. Still it is a complicated subject matter.

Fun reading for those of us who love E&M!

Really a useful book.

The version of the book that was sent is not according to what was described. Should be said more exactly which version of the book this one was.

I must repeat my review of this textbook here, as I previously posted it on UK. It is incomprehensible to me how anyone can rate this book favorably. Using this as my course textbook has been a hinderance to my course in the field, not an aid, which is exasperating. I do not recall when I last had a textbook that was such a frustration as this. This book is, as a whole, poorly suited for students taking whole courses. It should solely be used in a piece-wise manner or a handbook for those already familiar with the field. If you, as a teacher, require your students to obtain this brick for your course, then you are as an educator morally obliged to provide a thorough study guide for it on the side, replete with the necessary formulae and brief context of concepts required for coursework and grading, which leads me to the main criticism: The core formulaic material for the breath of the subject matter is spread around the book in a confusing manner, requiring you to have a precise recollection (or lots of index panes!) of where they are to be found for when solving problems and doing coursework. When you do more complex problems, you constantly need to leaf back and forth for reference between necessary parts, for each individual part of a problem. Writing your own comprehensive inventory of formulae is only of some help, since the equations obviously don't stand on their own. The illustrations and diagrams are often confusing, especially those that add a depth dimension whereas it mostly causes confusion. Performing the various formulaic evaluations of equations, meant to show the mathematic application of various laws and functional relationships between, say, conductors and the fields they create, suddently lack description of variables that either "pop into existence" or drop out. The progression of the topics is a tattered affair. Some points and topics are treated at great length and detail while others are seemingly covered in passing, such as fibre optics in little more a handful of pages, wholly inadequate for present-day study and

use. Equations necessary for a lot of the problems or examples are often present in other chapters; references to these are far between. The book is lacking in proper index content references to particular subjects, where a particular or essential part needed for problem solving is not even mentioned in the index, nor immediately visible from the table of contents as the book is so densely packed with minutiae. Likewise frustrating. This book is most certainly not written by people unfamiliar with the field; the problem is likely that they are too familiar with the material, and thus have neglected that their material must be accessible to the novices. I cannot recommend purchasing this book if you can avoid it, otherwise only if you are a teacher in the field and cannot find a suitable alternative. Since it is two decades dated, it is not unreasonable to look for alternatives solely taking its age into account.

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