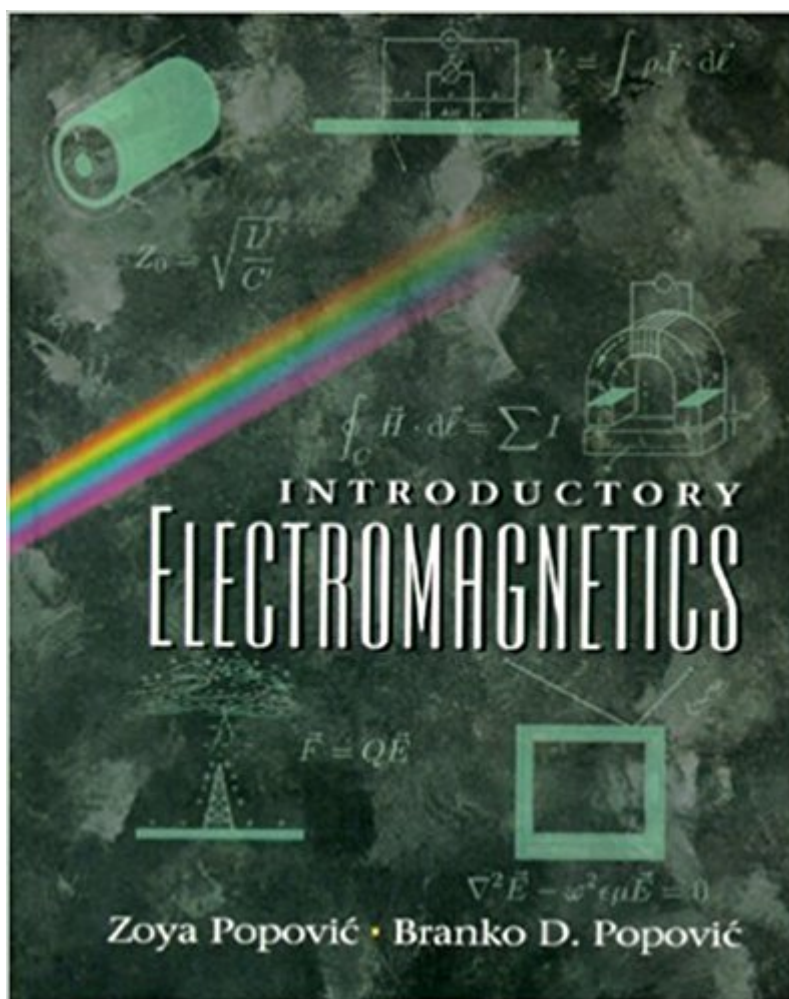


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# Introductory Electromagnetics



## Synopsis

It relates basic physical principles to engineering practice with a number of application examples. It is mathematically simple, but exact. FEATURES/BENEFITS \*Contains application chapters \*Includes a "Questions" feature \*Derives mathematical tools from physical concepts when needed \*Presents transmission lines in the middle of the text once students have understood distributed circuit elements \*Offers a "Practice Problems and Labs" supplement

## Book Information

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## Customer Reviews

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Zoya Popovic received her B.Sc. from the University of Belgrade in 1985, and Ph.D. from Caltech in 1990. She has since been at the University of Colorado at Boulder. She is a coauthor of *Quasi-optical and Active Arrays for Spatial Power Combining* (Wiley, 1997), and holds several patents. She received the Eta Kappa Nu professor of the year award from her students. She won the IEEE MTT Microwave Prize, the NSF Presidential Faculty Fellow Award, the URSI Young Scientist Award, the International URSI Issak Koga Gold Medal, and the University of Colorado

Margaret Willard Award. She took her first EM course from her father, Branko D. Popovic, who received his degrees at the University of Belgrade, Serbia, Yugoslavia, where he has been a professor for the past four decades. He was a visiting professor at Virginia Tech (VPI), McGill University, and the University of Colorado, and delivered shortcourses around the world, including Chengdu University in China and the Telebras Institute in Brasil. He is the author of 3 monographs and 6 textbooks in English and Serbian, and was the recipient of the IEE James Clerk Maxwell Award, the IERE Heinrich Hertz Premium, and the Serbian Nikola Tesla Award, as well as numerous teaching excellence awards from his students. He is a Member of the Serbian Academy of Sciences and Arts and a Fellow of the IEE. Together, the two authors of Introductory Electromagnetics have had over 50 years experience in teaching electromagnetic fields.

Arrived on time, product as advertised.

Not a particularly good book for an introduction given the author's terse description of phenomena (the author exhorts the reader to finish many of the book's examples), however, it is a very good book as a reference or as a supplement. I appreciated and enjoyed this book more and more as I learned about the topic. There are more thorough and verbose textbooks; this one will present a large challenge if you are just starting to learn the topic, but the knowledge that is covered is quite practical and absolutely worth spending time puzzling out. If you can get through this text, you will have a fantastic working foundation for further EM studies. I emphatically recommend that any readers of this text also check out the EM Lab book that the author hosts freely on colorado.edu. It covers the book's topics in a practical setting, and may help some students who yearn for more context. The big upsides are (1) it is a very compact textbook and (2) it is free online.

**DO NOT BUY IT!!!!** Let me summarize what this book is all about in a few points: 1- Lacks pedagogical examples 2- Makes even the easiest concepts hard to understand 3- Lacks consistency 4- Makes Electromagnetics repulsive However, if you are a student as I was, do not despair. The book that made me excel in electromagnetics was "Introduction to Electrodynamics" by Griffiths. It is full of examples that help the student understand everything there is in Electromagnetics. It makes the hardest topics very easy to grasp. Finally, it will make you fall in love with Electromagnetics.

«Introductory Electromagnetics» is a book especially written for engineering students

(electrical and electrotechnical) who are taking their first steps in the area. Overall, the book is carefully written, with every chapter featuring very good theoretical introductions that make the reader feel comfortable with the subjects being discussed and know what he's actually studying. The examples given everytime a new concept is introduced are also good and tend to be very down-to-earth and clear for the reader to understand. Nevertheless, this book has a heavy downside, especially to the readers who are using it for, and as the author itself states on the preface, "an intermediate level one-semester textbook in electromagnetic fields": there are very few exercises and the ones that do feature in this book are not supplied with resolutions and not even solutions. In addition to this, all examples tend to be theoretically good, but the authors try to bypass the mathematical part of the exercises, which don't make things any easy for the readers who are studying for an exam and need to know how a certain problem is solved (since electromagnetism tends to use very particular techniques to solve mathematical issues - especially integral equations - different than those learned in mathematical subjects that the readers probably have had before studying electromagnetism). All in all, the book is theoretically very good and clear, but lacks the practical part of electromagnetism, essential for problem solving (which is one of the main goals for the college student). Still, it's a good compliment for the students who have solved exercises elsewhere and use this book mainly to understand the theory behind electromagnetism.

Zoya is my professor and by far the best professor I've had in college. However, this book isn't the best thing to learn off of. Use this book as a reference and it's great.

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. As a result, this book, more so than any other book, has given me the confidence to handle the difficult subject of electromagnetism. Electromagnetics With Application by Kraus is the least systematic of these books, with some of the discussions being disjoint and abrupt. It is, however, valuable for its interesting and practical examples. It is a must-have book for anyone who is serious about electromagnetism. Schaums Outline of Electromagnetics, by Edminister, is an outstanding collection of problems and solutions, as well as summaries. It mirrors the excellence of Edminister's other Schaums Outline, namely, Electric Circuits. In summary, these four books have different strengths, respectively the following: (i) intuitive development; (ii) systematic development; (iii) practical application; and (iv) problem solving. These books form an awesome quartet, covering all the bases, and will provide you with a good foundation for advanced studies. A useful supplement for these books is Schaums Mathematical Handbook of Formulas and Tables.

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