



Electromagnetics

By Branislav M. Notaros

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Electromagnetics is a thorough text that enables readers to readily grasp EM fundamentals, develop true problem-solving skills, and really understand and like the material. It is meant as an "ultimate resource" for undergraduate electromagnetics.

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Editorial Review

Review

"The worked examples are very good and seem to be the anchor for different "concept nuggets." The examples either demonstrate the use of the mathematics in a very complete manner or model a real-world problem using the principles developed in the previous material. By rereading the material and carefully going over the example, the student will not be intimidated by the one or two questions and problems at the end of the chapter referenced at the end of the section." — Kenneth A. James, California State University, Long Branch

"The number and variety of examples are outstanding features of the chapter. Students who learn by following examples will really benefit from this book." — Cindy K. Harnett, University of Louisville

"The text is very well written and is thorough and very precise in technical presentation. The author's presentations are clear and sound." — R.J. Coleman, University of North Carolina - Charlotte

"The examples explain the concept well and there also sufficient examples presented in each chapter. The examples provide good support for the theory and vice versa." — Yifei Li, University of Massachusetts - Dartmouth

"The greatest challenge is to connect the mathematical complexity of the subject with the physical phenomena described by Maxwell's equations and also to convince the students (especially computer engineering majors) that learning electromagnetic basics is essential for the engineering background. The author's rigorous presentation and numerous practical examples are addressing this challenge quite well." — Costas D. Sarris, University of Toronto

"Based on the sample chapters I have read, I can say that this is a superb text. The coverage is complete, in-depth, the examples are innovative, derivations rigorous, and there are no errors (I have not caught even a single misprint!)." — Krzysztof A. Michalski, Texas A&M University

From the Back Cover

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FEATURES:

- 371 outstanding worked examples, with very detailed and instructive solutions, tightly coupled to the theory
- 650 outstanding homework problems, fully supported by solved examples (a demo example for every problem)
- New pedagogy and clear, rigorous, complete, and logical presentation of material with no missing steps
- Great flexibility for different options in coverage, including the transmission-lines-first approach
- 500 unique multiple-choice conceptual questions, for active teaching/learning and assessment, available on-line
- 400 MATLAB computer exercises and projects, many with tutorials and m files, available on-line

Branislav M. Notaroš is Associate Professor of Electrical and Computer Engineering at Colorado State University, where he conducts research in computational electromagnetics, antennas, and microwaves. He received the Ph.D. degree from the University of Belgrade, Yugoslavia, where he then served as Assistant Professor. He also was Assistant and Associate Professor at the University of Massachusetts Dartmouth. He has published three workbooks and 80 papers. Prof. Notaroš was the recipient of the 2005 IEEE MTT-S Microwave Prize, 1999 IEE Marconi Premium, 1999 URSI Young Scientist Award, 2005 UMass Dartmouth Scholar of the Year Award, 2004 UMD COE Dean's Recognition Award, and 2009 CSU Excellence in Teaching Award.

About the Author

Branislav M. Notaroš received the Dipl.Ing. (B.Sc.), M.Sc., and Ph.D. degrees in electrical engineering from the University of Belgrade, Belgrade, Yugoslavia, in 1988, 1992, and 1995, respectively. From 1996 to 1998, he was an Assistant Professor in the Department of Electrical Engineering at the University of Belgrade, and before that, from 1989 to 1996, a Teaching and Research Assistant (faculty position) in the same department. He spent the 1998-1999 academic year as a Research Associate at the University of Colorado at Boulder. He was an Assistant Professor, from 1999 to 2004, and Associate Professor (with Tenure), from 2004 to 2006, in the Department of Electrical and Computer Engineering at the University of Massachusetts Dartmouth. He is currently an Associate Professor (with Tenure) of electrical and computer engineering at Colorado State University.

Research activities of Prof. Notaroš are in applied computational electromagnetics, antennas, and microwaves. His research publications so far include 22 journal papers, 58 conference papers and abstracts, and a chapter in a monograph. His main contributions are in higher order computational electromagnetic techniques based on the method of moments, finite element method, physical optics, domain decomposition method, and hybrid methods as applied to modeling and design of antennas and microwave circuits and devices for wireless technology. He has produced several Ph.D. and M.S. graduates. Prof. Notaroš' teaching activities are in theoretical, computational, and applied electromagnetics. He is the author of the Electromagnetics Concept Inventory (EMCI), an assessment tool for electromagnetic fields and waves. He has published 3 workbooks in electromagnetics and in fundamentals of electrical engineering (basic circuits and fields). He has taught a variety of undergraduate and graduate courses in electromagnetic theory, antennas and propagation, computational electromagnetics, fundamentals of electrical engineering, electromagnetic compatibility, and signal integrity. He has been consistently extremely highly rated by his students in all courses, and most notably in undergraduate electromagnetics courses (even though undergraduates generally find these mandatory courses quite difficult and challenging).

Dr. Notaroš was the recipient of the 2005 IEEE MTT-S Microwave Prize, Microwave Theory and Techniques Society of the Institute of Electrical and Electronics Engineers (best-paper award for IEEE Transactions on MTT), 1999 IEE Marconi Premium, Institution of Electrical Engineers, London, UK (best-paper award for IEE Proceedings on Microwaves, Antennas and Propagation), 1999 URSI Young Scientist Award, International Union of Radio Science, Toronto, Canada, 2005 UMD Scholar of the Year Award, University of Massachusetts Dartmouth, 2004 Dean's Recognition Award, College of Engineering, University of Massachusetts Dartmouth, 2009 and 2010 ECE Excellence in Teaching Awards (by nominations and votes of ECE students), Colorado State University, and 2010 George T. Abell Outstanding Teaching and Service Faculty Award, College of Engineering, Colorado State University.

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