



Fundamentals of Electromagnetics with MATLAB

By Karl E. Lonngren, Sava Savov, Randy J. Jost

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Virtually every four-year electrical and computer engineering program requires a course in electromagnetic fields and waves encompassing Maxwell's equations. Understanding and appreciating the laws of Nature that govern the speed of even the smallest computer chip or largest power line is fundamental for every electrical and computer engineer.

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Review

"This second edition conforms pretty much to what I think a 'book' must be, if it is to be used as a text. The authors have surrounded the book with electronic software that points squarely in the direction of the book-of-the-future...Lonngren's text is a big step along the way to the CORRECT use of electronic multimedia." -- Donald G. Dudley, University of Arizona, Founding Editor of the IEEE Press Series on Electromagnetic Wave Theory

"I am very impressed with this book...The large amount of supplementary material available for students and instructors is a big advantage, and the publisher seems to be available around the clock with an open ear for requests and an appetite for suggestions and submissions." --Jonathan Bagby, Associate Professor, Dept. of Electrical Engineering, Florida Atlantic University

"What I like most about this textbook is its logical and straightforward presentation of the fundamentals, with relevant and helpful MATLAB examples and website materials." --Gregory D. Buckner, Associate Professor, Dept. of Mechanical and Aerospace Engineering, NC State University

About the Author

Randy J. Jost received his BSEE, MSEE, and PhD in electrical engineering from the University of Missouri-Columbia. He was commissioned a Second Lieutenant in the US Air Force in 1982 and was an instructor at the Air Force Institute of Technology from 1984-1988. Upon leaving AFIT, he worked for the Air Force Research Laboratory at Wright-Patterson AFB until 1991. From 1991 to 1996, he worked as a Program Manager for SRI, International in Rosslyn, Virginia. During this period, he also served as an IPA for the Office of the Secretary of the Air Force for two years. In 1996, he took a position as the Technical Director/Director of Engineering for Johnson Controls, at the National RCS Test Facility through 2000. In 2001 he joined Utah State University and was an assistant professor in the Department of Electrical & Computer Engineering through 2005. In 2006 he became a Senior Scientist with the Space Dynamics Laboratory at USU until 2011. In 2011 he joined Ball Aerospace and Technologies Incorporated, as a Staff Consultant in RF & Microwave Engineering. His areas of research interests include radar and microwave engineering, remote sensing, electromagnetic compatibility, computational electromagnetics, and electromagnetic measurement range characterization. Dr. Jost is a Senior Member of the Antenna Measurement Techniques Association, where he served a term on the Board of Directors. He is also a member of the Association of Old Crows, SPIE and ITEA. He has served a term on the Board of Directors of the Electromagnetic Compatibility Society and is active in the EMC Society and AES Society, serving on several committees and reviewing papers for both groups.

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