



Electromagnetic Field Theory Fundamentals

By Bhag Singh Guru, Hüseyin R. Hiziroglu

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Guru and Hiziroglu have produced an accessible and user-friendly text on electromagnetics that will appeal to both students and professors teaching this course. This lively book includes many worked examples and problems in every chapter, as well as chapter summaries and background revision material where appropriate. The book introduces undergraduate students to the basic concepts of electrostatic and magnetostatic fields, before moving on to cover Maxwell's equations, propagation, transmission and radiation. Chapters on the Finite Element and Finite Difference method, and a detailed appendix on the Smith chart are additional enhancements. MathCad code for many examples in the book and a comprehensive solutions set are available at www.cambridge.org/9780521830164.

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Editorial Review

Review

"... a comprehensive account of electromagnetic theory for undergraduate physics and electronics engineering students. Its key feature is that the physics is developed assuming that the student is thoroughly familiar with all of the vector analysis."

Dr T. A. Birks, *Contemporary Physics*

About the Author

Dr Guru is a Professor in the ECE Department at Kettering University. He has published over 30 papers in the areas of Rotating Machinery and Electromagnetic Fields and has co-authored two books. Dr Guru is a member of the IEEE.

Huseyin R. Hiziroglu is a Professor in the Department of Electrical and Computer Engineering at Kettering University, where he has been a member of faculty since 1982. He was awarded several grants by the United Nations Development Program, and has numerous publications in IEEE conferences and transactions. He is also a coauthor, with Bhag Guru, of *Electric Machinery and Transformers* (1988, 1995, 2001). Dr Hiziroglu is a senior member of IEEE.

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