



# Iterative and Self-Adaptive Finite-Elements in Electromagnetic Modeling

*Magdalena Salazar-Palma, Tapan K. Sarkar, Luis-Emilio Garcia-Costillo, Tammoy Roy*

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This volume aims to assist readers in ensuring the accuracy of their results when applying the Finite Element Method (FEM) to electromagnetic and antenna problems. It outlines the method, describes its key elements and numerical techniques, and identifies various approaches to using the FEM in solving real-world microwave field problems. The book presents techniques for automatically generating self-adaptive meshes and explains how to solve scattering and radiation problems from open regions without the need for hybrid procedures or absorbing boundary conditions. Real-world examples are included.

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