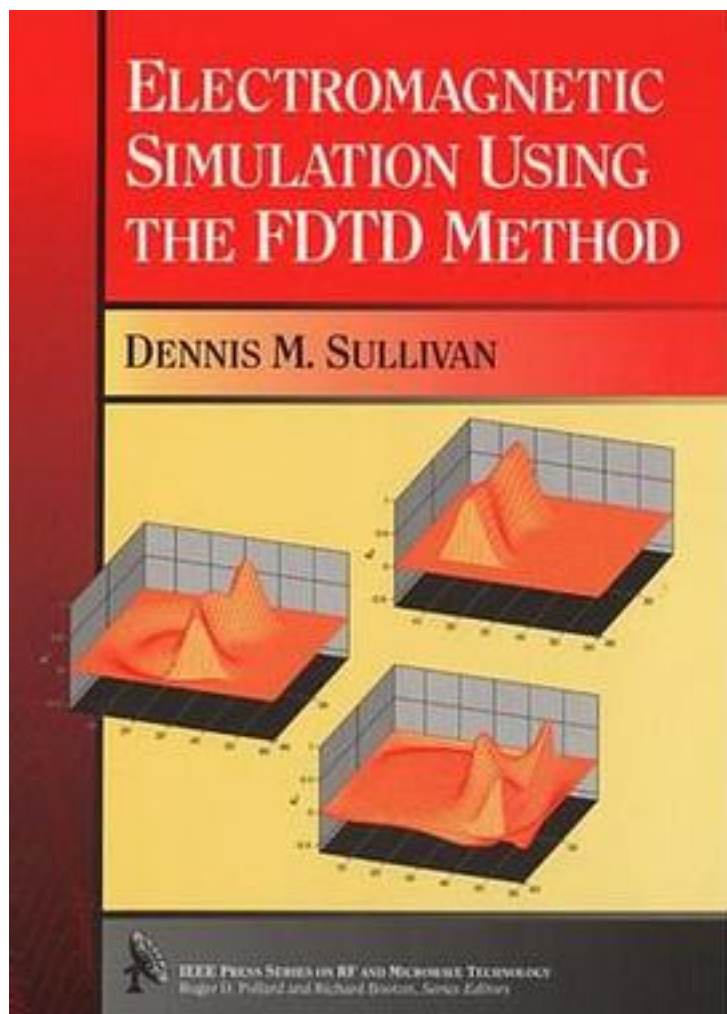


Electromagnetic Simulation Using the FDTD Method



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You can immediately have the power to perform electromagnetic simulation. If you have a fundamental understanding of electromagnetic theory and the knowledge of at least one high-level computer language, you can begin writing simple electromagnetic simulation programs after reading the first chapter of this book. "Electromagnetic Simulation Using the FDTD Method" describes the power and flexibility of the finite-difference time-domain method as a direct simulation of Maxwell's equations. The FDTD method takes advantage of today's advanced computing power because its computational requirements increase linearly with the size of the simulation problem. This book begins with a simple one-dimensional simulation and progresses to a three-dimensional simulation. Each chapter contains a concise explanation of an essential concept and instruction on its implementation into computer code. Projects that increase in complexity are included, ranging from simulations in free space to propagation in dispersive media. Peripheral topics that are pertinent to time-domain simulation, such as Z-transforms and the discrete Fourier transform, are also covered. "Electromagnetic Simulation Using the FDTD Method" is written for anyone who would like to learn electromagnetic simulation using the finite-difference time-domain method. Appropriate as both a textbook and for self-study, this tutorial-style book will provide all the background you will need to begin research or other practical work in electromagnetic simulation.

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