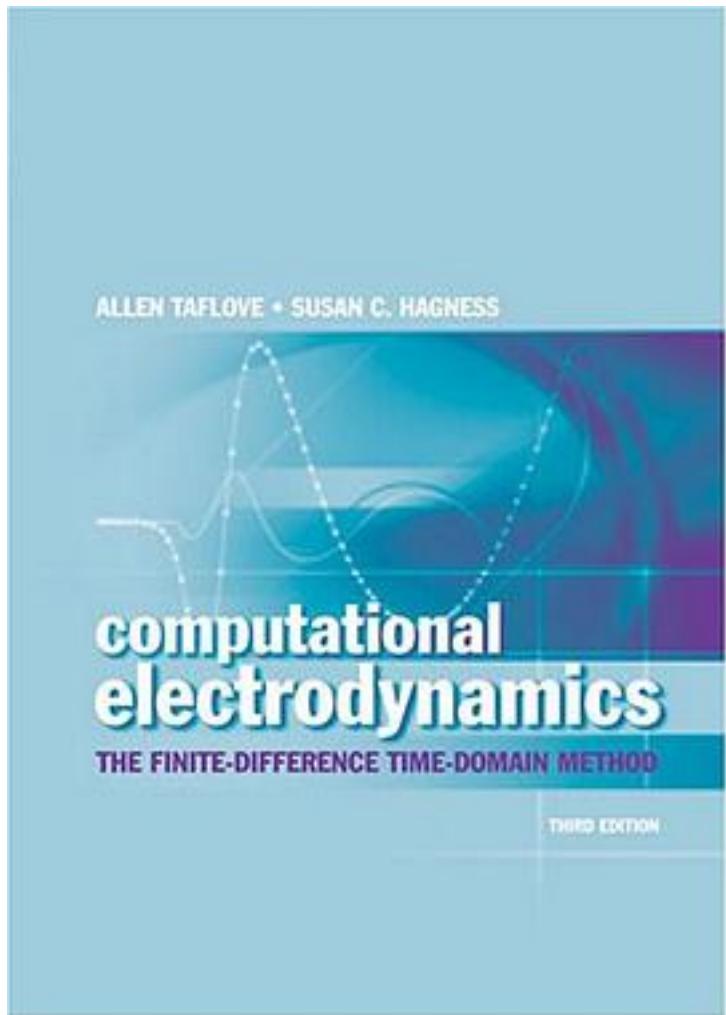


Computational Electrodynamics



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This extensively revised and expanded third edition of the Artech House bestseller,

Computational Electrodynamics: The Finite-Difference Time-Domain Method, offers you the most up-to-date and definitive resource on this critical method for solving Maxwell's equations. There has been considerable advancement in FDTD computational technology over the past few years, and this new edition brings you the very latest details with four new invited chapters on advanced techniques for PSTD, unconditional stability, provably stable FDTD-FETD hybrids, and hardware acceleration. Moreover, you find many completely new sections throughout the book, including major updates on convolutional PML ABCs; dispersive, nonlinear, classical-gain, and quantum-gain materials; and micro-, nano-, and bio- photonics.

This single resource provides complete guidance on FDTD techniques and applications, from basic concepts, to the current state-of-the-art. It enables you to more efficiently and effectively design and analyze key electronics and photonics technologies, including wireless communications devices, high-speed digital and microwave circuits, and integrated optics. You find sample FDTD codes written in Matlab® that serve as a self-guided refresher, and examples of how to use the FDTD method on a wide range of projects in the field. What's more, to supplement the third edition, the authors and publisher have created a Website where you can find solutions to the problems, sample FDTD PML codes, text updates/errata, and downloadable color graphics and videos. Consequently, this new edition is the ideal textbook for both a senior-year undergraduate elective course and a graduate course in computational electrodynamics.

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