Computational Electrodynamics: The Finite-Difference Time-Domain Method, Third Edition

By Allen Taflove, Susan C. Hagness

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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 engineers the most up-to-date and definitive resource on this critical method for solving Maxwell's equations. The method helps practitioners design antennas, wireless communications devices, high-speed digital and microwave circuits, and integrated optical devices with unsurpassed efficiency. There has been considerable advancement in FDTD computational technology over the past few years, and the third edition brings professionals the very latest details with entirely new chapters on important techniques, major updates on key topics, and new discussions on emerging areas such as nanophotonics. What's more, to supplement the third edition, the authors have created a Web site with solutions to problems, downloadable graphics and videos, and updates, making this new edition the ideal textbook on the subject as well.

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Computational Electrodynamics: The Finite-Difference Time-Domain Method, Third Edition By Allen Taflove, Susan C. Hagness Bibliography

- Sales Rank: #282731 in Books
- Published on: 2005-05-31
- Original language: English
- Number of items: 1
- Dimensions: 10.00" h x 2.13" w x 7.01" l, 4.20 pounds
- Binding: Hardcover
- 1038 pages

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Editorial Review

About the Author
Allen Taflove has pioneered the finite-difference time-domain method since 1972, and is a leading authority in the field of computational electrodynamics. He is currently a professor at Northwestern University. Susan Hagness is an associate professor at the University of Wisconsin-Madison. Dr. Hagness received the Presidential Early Career Award for Scientists and Engineers.

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