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Computational electromagnetics - Wikipedia
Finite-difference time-domain or Yee's method is a numerical analysis technique used for modeling computational electrodynamics. Since it is a time-domain method, FDTD solutions can cover a wide frequency range with a single simulation run, and treat nonlinear material properties in a natural way. The FDTD method belongs in the general class of grid-based differential numerical modeling methods. The time-dependent Maxwell's equations are discretized using central-difference approximations to the

Taflove, Allen | Faculty | Northwestern Engineering
Taflove, A & Hagness, SC 2000, Computational Electrodynamics: The Finite-Difference Time-Domain Method. 2nd edn, Artech House, Norwood, MA.

9781580538329: Computational Electrodynamics: The Finite ...
Allen Taflove Dr. 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 a professor at Northwestern University, where he also received his B.S., M.S. and Ph.D. degrees.

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Computational electromagnetics (CEM), computational electrodynamics or electromagnetic modeling is the process of modeling the interaction of electromagnetic fields with physical objects and the environment.

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Computation Electrodynamics: The Finite-Difference Time-Domain Method, by Allen Taflove and Susan Hagness, 2 nd ed., Artech House, 2000 Related Texts, available from the Engineering Library: The Finite Difference Time Domain Method for Electromagnetics , by Karl S. Kunz & Raymond J. Luebbers, CRC Press

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In September 2012, Allen's major publication, Computational Electrodynamics: The Finite-Difference Time-Domain Method, was ranked as the 7th most-cited book in physics, according to a Google Scholar (GS) search conducted by the University of Rochester's Institute of Optics (see Most-cited physics books).

Computational Electrodynamics The Finite Difference
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.

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TY - BOOK. T1 - Advances in Computational Electrodynamics. T2 - The Finite-Difference Time-Domain Method. AU - Taflove, A. A2 - Taflove, A. PY - 1998

Computational Electrodynamics, Third Edition - Artech House
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