

### **Computational Electrodynamics The Finite Difference**

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

### **Computational electromagnetics - Wikipedia**

Computational Electrodynamics The Finite-Difference Time-Domain Method Third Edition Allen Taflove Susan C. Hagness ARTECH HOUSE BOSTON | LONDON artechhouse.com

### **Computational Electrodynamics - CERN**

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

### **Finite-difference time-domain method - Wikipedia**

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.

### **Computational Electrodynamics: The Finite-Difference Time ...**

This extensively revised and expanded third edition of the Artech House bestseller, Computational Electrodynamics: The Finite-Difference Time-Domain Method, offers the most up-to-date and ...

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

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### **Computational electrodynamics - CERN Document Server**

PDF | On Jun 1, 2000, A. Taflove and others published Computational electrodynamics: the finite-difference time-domain method. 2nd ed

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Computational Electromagnetics via The Finite-Difference Time-Domain Method • FDTD is One of the Most Popular Computational Techniques of Current Date for Simulation of Electromagnetic Phenomena • Based on 2nd Order Accurate Central Difference Approximations in Space and Time of Maxwell's Eqns. • Provides a Direct Solution of Time-Dependent EM Fields in a Volumetric Region • Advantages ...

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