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Computational Electrodynamics The Finite Difference

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.

Computational Electrodynamics: The Finite-Difference Time ...

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Finite-difference time-domain method - Wikipedia

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Advances in Computational Electrodynamics: The Finite ...

vi Computational Electrodynamics: The Finite-Difference Time-Domain Method 3 Introduction to Maxwell's Equations and the Yee Algorithm Allen Taflove and Jamesina Simpson 51 3.1 Introduction 51 3.2 Maxwell' s Equations in Three Dimensions 51 3.3 Reduction to Two Dimensions 54 3.3.1 TMz Mode 55 3.3.2 TEz Mode 55 3.4 Reduction to One Dimension 56

Computational Electrodynamics - CERN

Description : 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 ...

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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.. It typically involves using computationally efficient approximations to Maxwell's equations and is used to calculate antenna performance, electromagnetic compatibility, radar cross ...

Computational electromagnetics - Wikipedia

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).

Allen Taflove and Finite-Difference Time-Domain (FDTD ...

The Finite-Difference Time-Domain Method for Electromagnetics with MATLAB simulations by Atef Elsherbeni and Veysel Demir, which contains information on current,voltage sources and more extensive code examples.

Amazon.com: Customer reviews: Computational ...

The Finite Difference Time Domain Method for Computational Electromagnetics A dissertation submitted by CHAN, Auc Fai in fulfillment of the requirements of Courses ENG4111 and 4112 Research Project towards the degree of Bachelor of Engineering (Electrical and Electronic) Submitted: November, 2006

The Finite Difference Time Domain Method for Computational ...

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title = "Computational Electromagnetics: The Finite-Difference Time-Domain Method", abstract = "This chapter reviews key elements of the theoretical foundation and numerical implementation of finite-difference time-domain (FDTD) solutions of Maxwell's equations. FDTD and related space-grid time-domain techniques are direct solution methods for Maxwell's curl equations.

Computational Electromagnetics: The Finite-Difference Time ...

There have been several widely used numerical techniques for modeling computational electrodynamics over the past few decades. The finite-difference-time-domain method (FDTD) is one approach that covers a wide frequency range with a single simulation run, and treats dispersive material properties in a natural way.

Computational Electromagnetics - Ellumen, Inc.

T1 - Advances in Computational Electrodynamics. T2 - The Finite-Difference Time-Domain Method. AU - Taflove, A. A2 - Taflove, A. PY - 1998. Y1 - 1998. M3 - Book. BT - Advances in Computational Electrodynamics. PB - Artech House. CY - Norwood, MA. ER -

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