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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 - 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 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 ...

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.

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Computational Electrodynamics: The Finite-Difference Time ...

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.

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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 disperse material properties in a natural way. Finite-difference-time-domain method and method of moment codes have been written for forward computational electromagnetics.

Computational Electromagnetics - Ellumen, Inc.

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