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Computational Electrodynamics: The Finite-difference Time-domain Method, 2005, 1006 pages, Allen Taflov, Susan C. Hagness, 1580538320, 9781580538329, Artech Computational Electrodynamics - CERN

The Finite-Difference Time-Domain Method Third Edition Allen Taflov Susan C. Hagness ARTECH HOUSE BOSTON I LONDON artechhouse.com . Contents Preface to the Third Edition xix 1 Electrodynamics Entering the 21st Century 1 1.1 Introduction 1 1.2 The Heritage of Military Defense Applications 1 1.3 Frequency-Domain Solution Techniques 2 1.4 Rise of Finite-Difference Time-Domain Methods 3 1.5

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Finite-difference time-domain or Yee's method (named after the Chinese American applied mathematician Kane S. Yee, born 1934) is a numerical analysis technique used for modeling computational electrodynamics (finding approximate solutions to the associated system of differential equations).

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Allen Taflov 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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Inducted into CQ Magazine's Amateur Radio Hall of Fame. 2012: The Institute of Optics of the University of Rochester ranked the citations of Computational Electrodynamics: The Finite-Difference Time-Domain Method as 7th on its list of the most-cited books in physics.

Allen Taflove - Wikipedia

In 1998, he edited the research monograph, *Advances in Computational Electrodynamics: The Finite-Difference Time-Domain Method*. Subsequently, he and Prof. Susan Hagness of the University of Wisconsin-Madison expanded and updated the 1995 book in a year-2000 second edition, and then further expanded and updated the 2000 second edition in a 2005 third edition. In 2013, Prof. Taflove and Dr

Computational electromagnetics - Wikipedia

Computational electromagnetics, 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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Examples for such numerical solvers are the Fourier Modal Method (FMM) 6,7 , the finite element method (FEM) 8 , or the finite-difference time-domain (FDTD) method 9. These approaches share the

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The first method is the Finite Difference Time Domain Method (FDTD), that proposed by K.Yee [19, 22]. This method is very well known for its simplicity and efficiency, but it is difficult to

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