

**The Finite Difference Time Domain Method For  
Electromagnetics: With MATLAB Simulations**  
By Atef Z. Elsherbeni

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Finite-difference time-domain (FDTD) is a numerical analysis technique used for modeling computational electrodynamics (finding approximate solutions to the [http://en.wikipedia.org/wiki/Finite-difference\\_time-domain\\_method](http://en.wikipedia.org/wiki/Finite-difference_time-domain_method)

General Applicability of the Technique The finite difference time domain (FDTD) solution technique has gained popularity in computational electromagnetics (CEM) over [https://www.feko.info/product-detail/numerical\\_methods/fdtd/finite-difference-time-domain](https://www.feko.info/product-detail/numerical_methods/fdtd/finite-difference-time-domain)

From Wikipedia, the free encyclopedia. Finite-difference time-domain (FDTD) is a popular computational electrodynamics modeling technique. It is considered easy to [http://www.thefullwiki.org/Finite-difference\\_time-domain\\_method](http://www.thefullwiki.org/Finite-difference_time-domain_method)

Simulation of digital ground penetrating radar (GPR) wave propagation in two-dimensional (2-D) media is developed, tested, implemented, and applied using a time <http://www.sciencedirect.com/science/article/pii/S0926985198000196>

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<http://eecs.mines.edu/eecs.php/people/facPage?id=aelsherb>

856 IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES, VOL. 51, NO. 3, MARCH 2003 A Generalized Higher Order Finite-Difference Time-Domain Method and Its

<http://users.math.msu.edu/users/wei/PAPER/p93.pdf>

The Finite-Difference Time-Domain Method in Electromagnetics with MATLAB Simulations, Atef Z. Elsherbeni is the Dobelman Distinguished Chair and Professor <http://www.theiet.org/resources/books/electro/findiftime.cfm>

Dr. Atef Z. Elsherbeni is a Professor of The Finite Difference Time Domain Method for Formulation to Efficient Simulations for

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FDTD includes various numerical techniques and options, such as algorithm for dispersive and nonlinear media modeling, different mesh types, simulation results

<http://fdtd.kintechlab.com/en/fdtd>

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<http://www.fdtddx.com/>

In mathematics, finite-difference methods (FDM) are numerical methods for solving differential equations by approximating them with difference equations, in which [http://en.wikipedia.org/wiki/Finite\\_Difference\\_Method](http://en.wikipedia.org/wiki/Finite_Difference_Method)

Finite-Difference Time-Domain (FDTD) is a popular technique for modeling computational electrodynamics, and is used within many research areas, such as the <http://hgpu.org/?tag=finite-difference-time-domain>

Finite Difference Time Domain Information on IEEE's Technology Navigator. Start your Research Here! Finite Difference Time Domain-related Conferences, Publications <http://technav.ieee.org/tag/784/finite-difference-time-domain>

In order to accurately predict the vibration characteristics of structure-borne sound transmission in buildings, wave-based numerical methods are effective from <http://www.sciencedirect.com/science/article/pii/S0003682X14003181>

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<http://rjeas.emergingresource.org/articles/FINITE%20DIFFERENCE%20TIME%20DOMAIN.pdf>

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Atef Elsherbeni is the author of The Finite Difference Time Domain Method for Electromagnetics (3.67 avg rating, 3 ratings, 1 review, [http://www.goodreads.com/author/show/598263.Atef\\_Elsherbeni](http://www.goodreads.com/author/show/598263.Atef_Elsherbeni))

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The Finite-Difference Time-Domain method ( FDTD ) is a numerical method introduced by K. S. Yee in 1966. It has been widely used for solving electromagnetic problems

<http://academic.research.microsoft.com/Keyword/14328/Finite-Difference-Time-Domain-Method>

Meep (or MEEP) is a free finite-difference time-domain (FDTD) simulation software package developed at MIT to model electromagnetic systems, along with our MPB

<http://ab-initio.mit.edu/wiki/index.php/Meep>