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# Research Article

# Multiresolution Time-Domain Scheme for Terminal Response of Two-Conductor Transmission Lines

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This paper derives a multiresolution time-domain (MRTD) scheme for the two-conductor lossless transmission line equations based on Daubechies' scaling functions. And a method is proposed to generate the scheme at the terminal and near the terminal of the lines. The stability and numerical dispersion of this scheme are studied, and the proposed scheme shows a better dispersion property than the conventional FDTD method. Then the MRTD scheme is extended to the two-conductor lossy transmission line equations. The MRTD scheme is implemented with different basis functions for both lossless and lossy transmission lines. Numerical results show that the MRTD schemes which use the scaling functions with high vanishing moment obtain more accurate results.

#### 1. Introduction

The multiresolution time-domain (MRTD) scheme proposed by [1] provides an efficient algorithm for electromagnetic field computation and shows excellent capability to approximate exact solution with low sampling rates. However, the Battle-Lemarie wavelet function used in [1] is not compact supported, which means the iterative equations contain infinite terms. We must cut off the iterative equations in the actual computation and this may introduce truncation errors. Sodifferent wavelet bases, which are compact supported with some numbers of vanishing moments, have been used to improve this method [2-5]. This makes a great development for MRTD schemes. As a kind of numerical method, the MRTD schemes show great advantages in numerical dispersion properties [6-9]; meanwhile, these schemes need a more rigorous stable condition than the conventional FDTD method [10]. For containing more terms in the iterative equations, the terminal conditions or absorbing boundary conditions are more complicated to process in MRTD schemes; this disadvantage has limited the application of the MRTD scheme. To overcome this limitation, some works on the perfect match layer have been made [11-13]; however, other terminal conditions also need to be analyzed specifically. For the transmission lines equations, the resistive

terminal conditions could be equivalent as a general Thevenin circuit; this paper will solve this kind of terminal condition in the MRTD scheme.

Since the appearance of the telegraph equations, studies on transmission lines have had a considerable development. Several equivalent forms of transmission line theory have been proposed to describe the influence of the incident electromagnetic field to the transmission lines [14–16]. In [17], the classical theory of the transmission line has been summarized and the theory on the high frequency radiation effects to the transmission lines is introduced. In the monograph-[18], the multiconductor transmission lines (MTL) theory has been comprehensively studied in detail. For the twoconductor lossless transmission lines, there are several methods, which contain the series solution, the SPICE solution, the time-domain to frequency-domain (TDFD) transformation method, and the FDTD method [18]. However, the MRTD scheme has not been used to calculate the terminal response of transmission lines. In this paper we will derive a MRTD scheme for this problem.

In this paper, we focus on the calculation of the terminal response of two-conductor transmission lines equations by using MRTD scheme. In Section 2, the MRTD scheme is derived based on Daubechies' scaling functions for the two-conductor lossless transmission line equations, and, for

# Multiresolution Time Domain Scheme For Electromagnetic Engineering

**Shulim E. Tsimring** 

# **Multiresolution Time Domain Scheme For Electromagnetic Engineering:**

Multiresolution Time Domain Scheme for Electromagnetic Engineering Yinchao Chen, Qunsheng Cao, Raj Mittra, 2005-01-28 The rapid development of computer techniques and information technologies in recent decades has fueled the need for efficient tools for electromagnetic modeling of millimeter wave integrated circuits high speed and high density VLSI circuits including computer chips and wireless computer applications RF and Microwave Transmitter Design Andrei Grebennikov, 2011-09-19 RF and Microwave Transmitter Design is unique in its coverage of both historical transmitter design and cutting edge technologies This text explores the results of well known and new theoretical analyses while informing readers of modern radio transmitters practical designs and their components Jam packed with information this book broadcasts and streamlines the author's considerable experience in RF and microwave design and development The Foundations of Signal Integrity Paul G. Huray, 2009-10-22 The first book to focus on the electromagnetic basis of signal integrity The Foundations of Signal Integrity is the first of its kind a reference that examines the physical foundation of system integrity based on electromagnetic theory derived from Maxwell's Equations Drawing upon the cutting edge research of Professor Paul Huray s team of industrial engineers and graduate students it develops the physical theory of wave propagation using methods of solid state and high energy physics mathematics chemistry and electrical engineering before addressing its application to modern high speed systems Coverage includes All the necessary electromagnetic theory needed for a complete understanding of signal integrity Techniques for obtaining analytic solutions to Maxwell's Equations for ideal materials and boundary conditions Plane electromagnetic waves Plane waves in compound media Transmission lines and waveguides Ideal models vs real world systems Complex permittivity of propagating media Surface roughness Advanced signal integrity Signal integrity simulations Problem sets for each chapter With its thorough coverage of this relatively new discipline the book serves as an ideal textbook for senior undergraduate and junior graduate students as well as a resource for practicing engineers in this burgeoning field At the end of each section it typically stimulates the reader with open ended questions that might lead to future theses or dissertation research Maxwell's Equations Paul G. Huray, 2009-11-16 An authoritative view of Maxwell's Equations that takes theory to practice Maxwell's Equations is a practical guide to one of the most remarkable sets of equations ever devised Professor Paul Huray presents techniques that show the reader how to obtain analytic solutions for Maxwell's equations for ideal materials and boundary conditions. These solutions are then used as a benchmark for solving real world problems Coverage includes An historical overview of electromagnetic concepts before Maxwell and how we define fundamental units and universal constants today A review of vector analysis and vector operations of scalar vector and tensor products Electrostatic fields and the interaction of those fields with dielectric materials and good conductors A method for solving electrostatic problems through the use of Poisson's and Laplace's equations and Green's function Electrical resistance and power dissipation superconductivity from an experimental

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involved in the commercialization of optical switching Readers are brought up to date with the latest advances in research as The Stripline Circulator Joseph Helszajn, 2008-06-30 Stripline well as the technological hurdles that researchers circulator theory and applications from the world's foremost authority. The stripline junction circulator is a unique three port non reciprocal microwave junction used to connect a single antenna to both a transmitter and a receiver Its operation relies on the interaction between an electron spin in a suitably magnetized insulator with an alternating radio frequency magnetic field In its simplest form it consists of a microwave planar gyromagnetic resonator symmetrically coupled by three transmission lines This book explores the magnetic interaction involved in the stripline circulator's operation the nature of the microwave resonator shape and the network problem that arises in coupling the microwave resonator to the microwave circuit The stripline circulator is an important device met across a wide range of industries including wireless military radar and satellite communications The book s design tables are a unique feature offering valuable design support Written by an international authority on non reciprocal microwave circuits and devices the book is organized into logical blocks of chapters that focus on specific effects and circuit aspects of the stripline circulator Among the highlights of coverage are Spatial shape demagnetizing factors of magnetic insulators Standing wave solutions of wye gyromagnetic planar resonators Lumped element circulators Negative permeability tracking and semi tracking circulators Four port single junction circulators Fabrication of very weakly and weakly magnetized microstrip circulators. The final chapter explores important and continuing discrepancies between theoretical models and actual practice For designers building circulators isolators and phase shifters researchers working on the limitation of ferrite devices and graduate students intending to work in the field Dr Helszajn s insights and perspectives are invaluable 2000 IEEE Antennas and Propagation Society International Symposium IEEE Antennas and Propagation Society. International Symposium, IEEE Antennas and Propagation Society, 2000 Electron Beams and Microwave Vacuum Electronics Shulim E. Tsimring, 2007 This book focuses on a fundamental feature of vacuum electronics the strong interaction of the physics of electron beams and vacuum microwave electronics including millimeter wave electronics. The author guides readers from the roots of classical vacuum electronics to the most recent achievements in the field exploring both the physics and the theory underlying electron beams and devices of vacuum high frequency electronics Special attention is devoted to the physics and theory of relativistic beams and microwave devices Readers gain a deep understanding of the topic as well as the theory and applications of specific devices BOOK JACKET Radio Propagation and Adaptive Antennas for Wireless Communication Links Nathan Blaunstein, Christos Christodoulou, 2007 Antennas and Propogation for Wireless Communication covers the basics of wireless communication system design with emphasis on antennas and propagation It contains information on antenna fundamentals and the latest developments in smart antennas as well as the radiation effects of hand held devices Antennas and Propogation for Wireless Communication provides a complete discussion of all the topics important to the design of wireless communication systems Written by

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