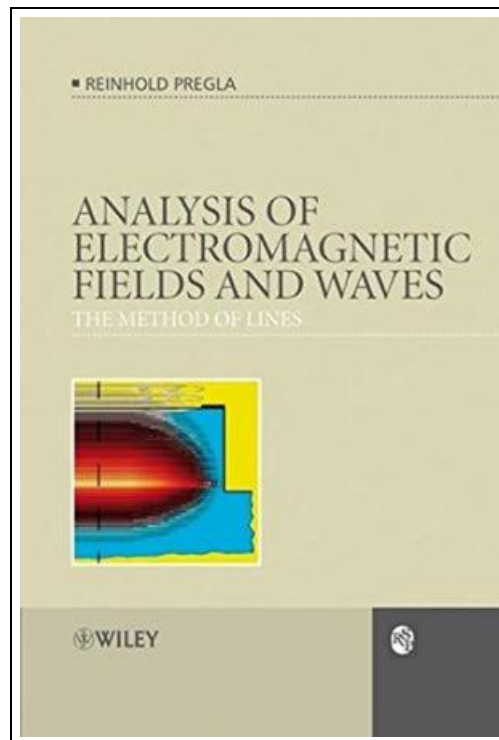


## Analysis of Electromagnetic Fields and Waves: The Method of Lines (Hardback)



Filesize: 3.84 MB

### **Reviews**

*Complete information for publication fans. Better than never, though i am quite late in start reading this one. Its been written in an extremely straightforward way in fact it is just soon after i finished reading this ebook in which basically altered me, change the way i believe.*

**(Ellie Stark)**

## ANALYSIS OF ELECTROMAGNETIC FIELDS AND WAVES: THE METHOD OF LINES (HARDBACK)



To read **Analysis of Electromagnetic Fields and Waves: The Method of Lines (Hardback)** PDF, make sure you access the button beneath and save the document or have access to other information that are have conjunction with ANALYSIS OF ELECTROMAGNETIC FIELDS AND WAVES: THE METHOD OF LINES (HARDBACK) ebook.

John Wiley and Sons Ltd, United States, 2008. Hardback. Condition: New. 1. Auflage. Language: English . Brand New Book. The Method of Lines (MOL) is a versatile approach to obtaining numerical solutions to partial differential equations (PDEs) as they appear in dynamic and static problems. This method, popular in science and engineering, essentially reduces PDEs to a set of ordinary differential equations that can be integrated using standard numerical integration methods. Its significant advantage is that the analysis algorithms follow the physical wave propagation and are therefore efficient. This is because the fields on the discretisation lines are described by generalised transmission line (GTL) equations. With this formulation we have a connection to the well known transmission line theory and resulting in an easy understanding. The method of lines is a very accurate and powerful way to analyze electromagnetic waves, enabling a full-wave solution without the computational burden of pure finite element or finite difference methods. With Analysis of Electromagnetic Fields and Waves, Reinhold Pregla describes an important and powerful method for analyzing electromagnetic waves. This book: Describes the general analysis principles for electromagnetic fields. Includes applications in microwave, millimetre wave and optical frequency regions. Unifies the analysis by introducing generalised transmission line (GTL) equations for all orthogonal coordinate systems and with materials of arbitrary anisotropy as a common start point. Demonstrates a unique analysis principle with the numerical stable impedance/admittance transformation and a physical adapted field transformation concept that is also useful for other modelling algorithms. Includes chapters on Eigenmode calculations for various waveguides, concatenations and junctions of arbitrary number of different waveguide sections in complex devices, periodic structures (e.g. Bragg gratings, meander lines, clystron resonators, photonic crystals), antennas (e.g. circular and conformal). Enables the reader to solve partial differential equations in other physical areas by using the described...



[Read Analysis of Electromagnetic Fields and Waves: The Method of Lines \(Hardback\) Online](#)



[Download PDF Analysis of Electromagnetic Fields and Waves: The Method of Lines \(Hardback\)](#)



[Download ePUB Analysis of Electromagnetic Fields and Waves: The Method of Lines \(Hardback\)](#)

## Other Kindle Books



**[PDF] Read Write Inc. Phonics: Yellow Set 5 Storybook 7 Do We Have to Keep it?**

Follow the hyperlink listed below to download "Read Write Inc. Phonics: Yellow Set 5 Storybook 7 Do We Have to Keep it?" document.

[Read eBook >](#)



**[PDF] California Version of Who Am I in the Lives of Children? an Introduction to Early Childhood Education, Enhanced Pearson Etext with Loose-Leaf Version -- Access Card Package**

Follow the hyperlink listed below to download "California Version of Who Am I in the Lives of Children? an Introduction to Early Childhood Education, Enhanced Pearson Etext with Loose-Leaf Version -- Access Card Package" document.

[Read eBook >](#)



**[PDF] Everything Ser The Everything Green Baby Book From Pregnancy to Babys First Year An Easy and Affordable Guide to Help Moms Care for Their Baby And for the Earth by Jenn Savedge 2009 Paperback**

Follow the hyperlink listed below to download "Everything Ser The Everything Green Baby Book From Pregnancy to Babys First Year An Easy and Affordable Guide to Help Moms Care for Their Baby And for the Earth by Jenn Savedge 2009 Paperback" document.

[Read eBook >](#)



**[PDF] Genuine the book spiritual growth of children picture books: let the children learn to say no the A Bofu (AboffM)(Chinese Edition)**

Follow the hyperlink listed below to download "Genuine the book spiritual growth of children picture books: let the children learn to say no the A Bofu (AboffM)(Chinese Edition)" document.

[Read eBook >](#)



**[PDF] Topsy and Tim: The Big Race - Read it Yourself with Ladybird: Level 2**

Follow the hyperlink listed below to download "Topsy and Tim: The Big Race - Read it Yourself with Ladybird: Level 2" document.

[Read eBook >](#)



**[PDF] Preventing Childhood Eating Problems : A Practical, Positive Approach to Raising Kids Free of Food and Weight Conflicts**

Follow the hyperlink listed below to download "Preventing Childhood Eating Problems : A Practical, Positive Approach to Raising Kids Free of Food and Weight Conflicts" document.

[Read eBook >](#)



**[PDF] Children s Educational Book Junior Leonardo Da Vinci : An Introduction to the Art, Science and Inventions of This Great Genius Age 7 8 9 10 Year-Olds. [British English]**

Access the web link under to get "Children s Educational Book Junior Leonardo Da Vinci : An Introduction to the Art, Science and Inventions of This Great Genius Age 7 8 9 10 Year-Olds. [British English]" file.

[Read Book »](#)



**[PDF] Alfred s Kid s Piano Course Complete: The Easiest Piano Method Ever!, Book, DVD Online Audio Video**

Access the web link under to get "Alfred s Kid s Piano Course Complete: The Easiest Piano Method Ever!, Book, DVD Online Audio Video" file.

[Read Book »](#)



**[PDF] Crochet: Learn How to Make Money with Crochet and Create 10 Most Popular Crochet Patterns for Sale: ( Learn to Read Crochet Patterns, Charts, and Graphs, Beginner s Crochet Guide with Pictures)**

Access the web link under to get "Crochet: Learn How to Make Money with Crochet and Create 10 Most Popular Crochet Patterns for Sale: ( Learn to Read Crochet Patterns, Charts, and Graphs, Beginner s Crochet Guide with Pictures)" file.

[Read Book »](#)



**[PDF] America s Longest War: The United States and Vietnam, 1950-1975**

Access the web link under to get "America s Longest War: The United States and Vietnam, 1950-1975" file.

[Read Book »](#)



**[PDF] Read Write Inc. Phonics: Orange Set 4 Storybook 2 I Think I Want to be a Bee**

Access the web link under to get "Read Write Inc. Phonics: Orange Set 4 Storybook 2 I Think I Want to be a Bee" file.

[Read Book »](#)



**[PDF] A Smarter Way to Learn JavaScript: The New Approach That Uses Technology to Cut Your Effort in Half**

Access the web link under to get "A Smarter Way to Learn JavaScript: The New Approach That Uses Technology to Cut Your Effort in Half" file.

[Read Book »](#)