

# **Parabolic Equation Methods for Electromagnetic Wave Propagation**

Mireille Levy

# Methods In Electromagnetic Wave Propagation

**Mireille Levy**



## Methods In Electromagnetic Wave Propagation:

**Parabolic Equation Methods for Electromagnetic Wave Propagation** Mireille Levy, 2000 Provides scientists and engineers with a tool for accurate assessment of diffraction and ducting on radio and radar systems The author gives the mathematical background to parabolic equations modeling and describes simple parabolic equation algorithms before progressing to more advanced topics such as domain truncation the treatment of impedance boundaries and the implementation of very fast hybrid methods combining ray tracing and parabolic equation techniques The last three chapters are devoted to scattering problems with application to propagation in urban environments and to radar cross section computation Annotation copyrighted by Book News Inc Portland OR

**Methods in Electromagnetic Wave Propagation** D. S. Jones, 1987 Methods in electromagnetic wave propagation Douglas S. Jones, 1987 *Methods in Electromagnetic Wave Propagation* Douglas Samuel Jones, D. S. J. Jones, 1994-02-05 Co published with Oxford University Press This new edition takes account of the most recent analytical progress that has been made in the field of electromagnetic wave propagation and the impact of the wider availability of powerful computers The aim of this book is to develop a suitable framework of theory and numerical analysis with applications to various aspects of the propagation of electromagnetic waves The conjugate gradient method and CGFFT are given extensive treatment The coverage of finite methods has been expanded and conforming finite elements particularly appropriate to electromagnetic applications are described New topics have been added to this edition including Sobolev spaces vector optimization absorbing boundary conditions and surface radiation conditions *Methods in Electromagnetic Wave Propagation* Douglas Samuel Jones, 1994 Co published with Oxford University Press This new edition takes account of the most recent analytical progress that has been made in the field of electromagnetic wave propagation and the impact of the wider availability of powerful computers The aim of this book is to develop a suitable framework of theory and numerical analysis with applications to various aspects of the propagation of electromagnetic waves The conjugate gradient method and CGFFT are given extensive treatment The coverage of finite methods has been expanded and conforming finite elements particularly appropriate to electromagnetic applications are described New topics have been added to this edition including Sobolev spaces vector optimization absorbing boundary conditions and surface radiation conditions *Methods in Electromagnetic Wave Propagation: Radiating waves* Douglas Samuel Jones, 1987 **Methods in Electromagnetic Wave Propagation** Douglas S. Jones, 1987 Wave Propagation in Electromagnetic Media Julian L. Davis, 2012-12-06 This is the second work of a set of two volumes on the phenomena of wave propagation in nonreacting and reacting media The first entitled Wave Propagation in Solids and Fluids published by Springer Verlag in 1988 deals with wave phenomena in nonreacting media solids and fluids This book is concerned with wave propagation in reacting media specifically in electro magnetic materials Since these volumes were designed to be relatively self contained we have taken the liberty of adapting some of the pertinent material especially in the theory of hyperbolic

partial differential equations concerned with electromagnetic wave propagation variational methods and Hamilton Jacobi theory to the phenomena of electromagnetic waves The purpose of this volume is similar to that of the first except that here we are dealing with electromagnetic waves We attempt to present a clear and systematic account of the mathematical methods of wave phenomena in electromagnetic materials that will be readily accessible to physicists and engineers The emphasis is on developing the necessary mathematical techniques and on showing how these methods of mathematical physics can be effective in unifying the physics of wave propagation in electromagnetic media Chapter 1 presents the theory of time varying electromagnetic fields which involves a discussion of Faraday's laws Maxwell's equations and their applications to electromagnetic wave propagation under a variety of conditions

### **Methods in Electromagnetic Wave**

**Propagation: Theory and guided waves** Douglas Samuel Jones, 1987      *Advanced Electromagnetic Wave Propagation Methods* Guillermo Gonzalez, 2021-11-16 This textbook provides a solid foundation into many approaches that are used in the analysis of advanced electromagnetic wave propagation problems The techniques discussed are essential to obtain closed form solutions or asymptotic solutions and meet an existing need for instructors and students in electromagnetic theory The book covers various advanced mathematical methods used in the evaluation of the electromagnetic fields in rectangular cylindrical and spherical geometries The mathematics of special functions i.e Bessel Hankel Airy Legendre Error etc are covered in depth including appropriate Appendices The author takes particular care to provide detailed explanations of auxiliary potentials Hertz's vectors Debye potentials as well as the use of Green functions the Watson transformation and the method of steepest descent in the solution of electromagnetic problems Overall *Advanced Electromagnetic Wave Propagation Methods* is a good source for the many skills required in obtaining closed form and asymptotic solution which in many instances cannot be obtained using computer codes of Maxwell's equations Thus it provides an excellent training for preparing graduate students in their research work This book is intended for a graduate course in electromagnetic theory for students in electrical engineering Students in physics and professionals will also find it appropriate and useful Provides a comprehensive and unified treatment of radiation and propagation problems Presents a detailed explanation in the use of Green functions the Watson transformation and the method of steepest descent as they apply to electromagnetic problems Demonstrates various advanced mathematical techniques used in the evaluation of the electromagnetic fields Details how to formulate and obtain a closed form solution or an asymptotic solution Includes appendices for Bessel Legendre Airy and Error functions

**An Introduction to Electromagnetic Wave Propagation and Antennas** Shane Cloude, 1995 This highly illustrated and accessible text will be an ideal introduction to the application of electromagnetics EM following an initial course in basic EM theory The book covers the well established structure of elementary EM courses beginning with Maxwell's equations in integral form and developing the wave equation to show the essential properties of waves In addition to providing a grounding in this traditional curriculum the principal concern throughout is to make difficult concepts of

electromagnetism more accessible The adoption of time domain methods for this purpose is the book's most important breakthrough allowing the fundamentals of applied electromagnetics to be introduced with a clarity and simplicity not available through the conventional route Another new aspect of this book is the integration of computational modelling methods with the standard theory of electromagnetic waves The author presents a set of example programs written in the MATLAB language to support the ideas outlined in the text The book is organized in a logical progression of ideas starting with the general idea of wave motion and showing how the equations of electricity and magnetism lead to the existence of electromagnetic waves through the Maxwell's equations These ideas are then applied to simple accelerating charge models used in the engineering design of wire antennas The concepts of resonance and antenna impedance are then treated from a time domain point of view To reinforce the concepts of wave propagation a chapter on computer modelling shows the rigorous procedures required to generate accurate numerical models of wave dynamics The author extends these ideas to consider the properties of aperture antennas showing how their important properties can be incorporated with the basic themes introduced earlier in the book Finally the important topic of wave scattering is introduced once again from the point of view of time domain concepts

Computational Methods for Electromagnetic and Optical Systems John M. Jarem, Partha P. Banerjee, 2016-04-19 The current rapid and complex advancement applications of electromagnetic EM and optical systems calls for a much needed update on the computational methods currently in use Completely revised and reflecting ten years of developments this second edition of the bestselling Computational Methods for Electromagnetic and Optical Systems provides the update so desperately needed in this field Offering a wealth of new material this second edition begins with scalar wave propagation and analysis techniques chiral and metamaterials and photonic band gap structures It examines Poynting vector and stored energy as well as energy group and phase velocities reviews  $k$  space state variable formation with applications to anisotropic planar systems and presents full field rigorous coupled wave analysis of planar diffraction gratings with applications to H mode E mode crossed gratings single and multilayered diffraction grating analysis and diffraction from anisotropic gratings Later chapters highlight spectral techniques and RCWA as applied to the analysis of dynamic wave mixing in PR materials with induced transmission and reflection gratings and demonstrate the RCWA algorithm to analyze cylindrical and spherical systems using circular bipolar cylindrical and spherical coordinates The book concludes with several RCWA computational case studies involving scattering from spatially inhomogeneous eccentric circular cylinders solved in bipolar coordinates Many of these examples apply the complex Poynting theorem or the forward scattering optical theorem to validate numerical solutions by verifying power conservation Using common computational tools such as Fortran MATLAB COMSOL and RSOF the text offers numerous examples to illuminate the material many of which employ a full field vector approach to analyze and solve Maxwell's equations in anisotropic media where a standard wave equation approach is intractable Designed to introduce novel spectral computational techniques the book demonstrates the application of these

methods to analyze a variety of EM and optical systems

**Numerical Methods for Electromagnetic Wave Propagation and Scattering in Complex Media** Christopher Doniert Q. Moss, 2004 Cont The structure under study is the well known periodic arrangement of rods and split ring resonators previously used in experimental setups For the first time the numerical results of this work show that fields propagating inside the metamaterial with a forward power direction exhibit a backward phase velocity and negative index of refraction A new metamaterial design is presented that is less lossy than previous designs The effects of numerical dispersion in the FDTD method are investigated for layered anisotropic media The numerical dispersion relation is derived for diagonally anisotropic media The analysis is applied to minimize the numerical dispersion error of Huygens plane wave sources in layered uniaxial media For usual discretization sizes a typical reduction of the scattered field error on the order of 30 dB is demonstrated The new FDTD method is then used to study the Angular Correlation Function ACF of the scattered fields from continuous random media with and without a target object present The ACF is shown to be as much as 10 dB greater when a target object is present for situations where the target is undetectable by examination of the radar cross section only

*Advanced Electromagnetic Waves* Saad Bashir, 2015-11-18 This book endeavors to give the reader a strong base in the advanced theory of electromagnetic waves and its applications while keeping pace with research in various other disciplines that apply electrostatics electrodynamics theory The treatment is highly mathematical which tends to obscure the principles involved

*Galerkin Methods for Electromagnetic Wave Propagation* Steven James Wilkes, 1998

*Behaviour of Electromagnetic Waves in Different Media and Structures* Ali Akdagli, 2011-07-05 This comprehensive volume thoroughly covers wave propagation behaviors and computational techniques for electromagnetic waves in different complex media The chapter authors describe powerful and sophisticated analytic and numerical methods to solve their specific electromagnetic problems for complex media and geometries as well This book will be of interest to electromagnetics and microwave engineers physicists and scientists

**Scientific and Technical Aerospace Reports**, 1992

**Electromagnetics through the Finite Element Method** José Roberto Cardoso, 2016-10-03 Shelving Guide Electrical Engineering Since the 1980s more than 100 books on the finite element method have been published making this numerical method the most popular The features of the finite element method gained worldwide popularity due to its flexibility for simulating not only any kind of physical phenomenon described by a set of differential equations but also for the possibility of simulating non linearity and time dependent studies Although a number of high quality books cover all subjects in engineering problems none of them seem to make this method simpler and easier to understand This book was written with the goal of simplifying the mathematics of the finite element method for electromagnetic students and professionals relying on the finite element method for solving design problems Filling a gap in existing literature that often uses complex mathematical formulas Electromagnetics through the Finite Element Method presents a new mathematical approach based on only direct integration of Maxwell s equation This book makes an original

scholarly contribution to our current understanding of this important numerical method

**Methods for Electromagnetic Field Analysis** Ismo V. Lindell, 1992 This monograph discusses mathematical and conceptual methods used in the analysis of electromagnetic fields and waves Dyadic algebra is reviewed and armed with new identities to be applied throughout the book The power of dyadic operations is seen when working with boundary sheet and interface conditions medium equations field transformations Green functions plane wave problems vector circuit theory multipole and image sources Dyadic algebra allows convenience in handling problems involving chiral and bianisotropic media of recent interest because of their wide range of potential applications The final chapter gives for the first time in book form a unified presentation of EIT the exact image theory introduced by this author and colleagues EIT is a general method for solving problems involving layered media by replacing them through image sources located in complex space The main emphasis of the monograph is not on specific results but methods of analysis The work will interest research level electromagnetic physicists and engineers and applied mathematicians

Behaviour of Electromagnetic Waves in Different Media and Structures Ali Akdagli, 2011-07-05 This comprehensive volume thoroughly covers wave propagation behaviors and computational techniques for electromagnetic waves in different complex media The chapter authors describe powerful and sophisticated analytic and numerical methods to solve their specific electromagnetic problems for complex media and geometries as well This book will be of interest to electromagnetics and microwave engineers physicists and scientists

## Reviewing **Methods In Electromagnetic Wave Propagation**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Methods In Electromagnetic Wave Propagation**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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### **Methods In Electromagnetic Wave Propagation Introduction**

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