

Asymptotic and Hybrid Methods in Electromagnetics

F. Molinet, I. Andronov
and D. Bouche

Asymptotic And Hybrid Methods In Electromagnetics

Xin-Qing Sheng, Wei Song



Asymptotic And Hybrid Methods In Electromagnetics:

Asymptotic and Hybrid Methods in Electromagnetics I. Andronov, F. Molinet, D. Bouche, 2005-07-18 Asymptotic methods provide considerable physical insight and understanding of diffraction mechanisms and are very useful in the design of electromagnetic devices such as radar targets and antennas However difficulties can arise when trying to solve problems using multipole and asymptotic methods together such as in radar crosssection objects This new book offers a solution to this problem by combining these approaches into hybrid methods therefore creating high demand for both understanding and learning how to apply asymptotic and hybrid methods to solve diffraction problems **Asymptotic and Hybrid**

Methods in Electromagnetics Frédéric Molinet, Ivan V. Andronov, Daniel Bouché, 2005 The book reviews developments in the following fields asymptotic theory electromagnetic creeping waves hybrid diffraction coefficients and asymptotic currents

Wavelet Applications in Engineering Electromagnetics Tapan K. Sarkar, Magdalena Salazar-Palma, Michael C. Wicks, 2002 Written from an engineering perspective this unique resource describes the practical application of wavelets to the solution of electromagnetic field problems and in signal analysis with an even handed treatment of the pros and cons A key feature of this book is that the wavelet concepts have been described from the filter theory point of view that is familiar to researchers with an electrical engineering background The book shows you how to design novel algorithms that enable you to solve electrically large electromagnetic field problems using modest computational resources It also provides you with new ideas in the design and development of unique waveforms for reliable target identification and practical radar signal analysis The book includes more than 500 equations and covers a wide range of topics from numerical methods to signal processing aspects *Theory and Computation of Electromagnetic Fields* Jian-Ming Jin, 2015-08-10 Reviews the fundamental concepts behind the theory and computation of electromagnetic fields The book is divided in two parts The first part covers both fundamental theories such as vector analysis Maxwell s equations boundary condition and transmission line theory and advanced topics such as wave transformation addition theorems and fields in layered media in order to benefit students at all levels The second part of the book covers the major computational methods for numerical analysis of electromagnetic fields for engineering applications These methods include the three fundamental approaches for numerical analysis of electromagnetic fields the finite difference method the finite difference time domain method in particular the finite element method and the integral equation based moment method The second part also examines fast algorithms for solving integral equations and hybrid techniques that combine different numerical methods to seek more efficient solutions of complicated electromagnetic problems *Theory and Computation of Electromagnetic Fields* Second Edition Provides the foundation necessary for graduate students to learn and understand more advanced topics Discusses electromagnetic analysis in rectangular cylindrical and spherical coordinates Covers computational electromagnetics in both frequency and time domains Includes new and updated homework problems and examples *Theory and Computation of Electromagnetic Fields*

Second Edition is written for advanced undergraduate and graduate level electrical engineering students This book can also be used as a reference for professional engineers interested in learning about analysis and computation skills **Essentials of Computational Electromagnetics** Xin-Qing Sheng, Wei Song, 2012-03-22 Essentials of Computational Electromagnetics provides an in depth introduction of the three main full wave numerical methods in computational electromagnetics CEM namely the method of moment MoM the finite element method FEM and the finite difference time domain FDTD method Numerous monographs can be found addressing one of the above three methods However few give a broad general overview of essentials embodied in these methods or were published too early to include recent advances Furthermore many existing monographs only present the final numerical results without specifying practical issues such as how to convert discretized formulations into computer programs and the numerical characteristics of the computer programs In this book the authors elaborate the above three methods in CEM using practical case studies explaining their own research experiences along with a review of current literature A full analysis is provided for typical cases including characteristics of numerical methods helping beginners to develop a quick and deep understanding of the essentials of CEM Outlines practical issues such as how to convert discretized formulations into computer programs Gives typical computer programs and their numerical characteristics along with line by line explanations of programs Uses practical examples from the authors own work as well as in the current literature Includes exercise problems to give readers a better understanding of the material Introduces the available commercial software and their limitations This book is intended for graduate level students in antennas and propagation microwaves microelectronics and electromagnetics This text can also be used by researchers in electrical and electronic engineering and software developers interested in writing their own code or understanding the detailed workings of code Companion website for the book www.wiley.com/go/sheng_cem Modern Electromagnetic Scattering Theory with Applications Andrey V. Osipov, Sergei A. Tretyakov, 2017-01-20 This self contained book gives fundamental knowledge about scattering and diffraction of electromagnetic waves and fills the gap between general electromagnetic theory courses and collections of engineering formulas The book is a tutorial for advanced students learning the mathematics and physics of electromagnetic scattering and curious to know how engineering concepts and techniques relate to the foundations of electromagnetics Complex Electromagnetic Problems and Numerical Simulation Approaches Levent Sevgi, 2003-06-10 Today engineering problems are very complex requiring powerful computer simulations to power them For engineers observable based parameterization as well as numerically computable forms with rapid convergent properties if in a series are essential Complex Electromagnetic Problems and Numerical Simulation Approaches along with its companion FTP site will show you how to take on complex electromagnetic problems and solve them in an accurate and efficient manner Organized into two distinct parts this comprehensive resource first introduces you to the concepts approaches and numerical simulation techniques that will be used throughout the book and then in Part II offers step by step guidance as to their

practical real world applications Self contained chapters will enable you to find specific solutions to numerous problems Filled with in depth insight and expert advice Complex Electromagnetic Problems and Numerical Simulation Approaches Describes ground wave propagation Examines antenna systems Deals with radar cross section RCS modeling Explores microstrip network design with FDTD and TLM techniques Discusses electromagnetic compatibility EMC and bio electromagnetics BEM modeling Presents radar simulation Whether you re a professional electromagnetic engineer requiring a consolidated overview of the subject or an academic student who wishes to use powerful simulators as a learning tool Complex Electromagnetic Problems and Numerical Simulation Approaches with its focus on model development model justification and range of validity is the right book for you **Electromagnetic Field Computation by Network Methods**

Leopold B. Felsen, Mauro Mongiardo, Peter Russer, 2009-03-05 In this monograph the authors propose a systematic and rigorous treatment of electromagnetic field representations in complex structures The architecture suggested in this book accommodates use of different numerical methods as well as alternative Green s function representations in each of the subdomains resulting from a partitioning of the overall problem The subdomains are regions of space where electromagnetic energy is stored and are described in terms of equivalent circuit representations based either on lumped element circuits or on transmission lines Connection networks connect the subcircuits representing the subdomains The connection networks are lossless don t store energy and represent the overall problem topology This is similar to what is done in circuit theory and permits a phrasing of the solution of EM field problems in complex structures by Network oriented methods

Electromagnetic Radiation, Scattering, and Diffraction Prabhakar H. Pathak, Robert J. Burkholder, 2021-12-07 Electromagnetic Radiation Scattering and Diffraction Discover a graduate level text for students specializing in electromagnetic wave radiation scattering and diffraction for engineering applications In Electromagnetic Radiation Scattering and Diffraction distinguished authors Drs Prabhakar H Pathak and Robert J Burkholder deliver a thorough exploration of the behavior of electromagnetic fields in radiation scattering and guided wave environments The book tackles its subject from first principles and includes coverage of low and high frequencies It stresses physical interpretations of the electromagnetic wave phenomena along with their underlying mathematics The authors emphasize fundamental principles and provide numerous examples to illustrate the concepts contained within Students with a limited undergraduate electromagnetic background will rapidly and systematically advance their understanding of electromagnetic wave theory until they can complete useful and important graduate level work on electromagnetic wave problems Electromagnetic Radiation Scattering and Diffraction also serves as a practical companion for students trying to simulate problems with commercial EM software and trying to better interpret their results Readers will also benefit from the breadth and depth of topics such as Basic equations governing all electromagnetic EM phenomena at macroscopic scales are presented systematically Stationary and relativistic moving boundary conditions are developed Waves in planar multilayered isotropic

and anisotropic media are analyzed EM theorems are introduced and applied to a variety of useful antenna problems Modal techniques are presented for analyzing guided wave and periodic structures Potential theory and Green's function methods are developed to treat interior and exterior EM problems Asymptotic High Frequency methods are developed for evaluating radiation Integrals to extract ray fields Edge and surface diffracted ray fields as well as surface leaky and lateral wave fields are obtained A collective ray analysis for finite conformal antenna phased arrays is developed EM beams are introduced and provide useful basis functions Integral equations and their numerical solutions via the method of moments are developed The fast multipole method is presented Low frequency breakdown is studied Characteristic modes are discussed Perfect for graduate students studying electromagnetic theory Electromagnetic Radiation Scattering and Diffraction is an invaluable resource for professional electromagnetic engineers and researchers working in this area Conformal Array Antenna Theory and Design Lars Josefsson, Patrik Persson, 2006-02-10 This is the first comprehensive treatment of conformal antenna arrays from an engineering perspective While providing a thorough foundation in theory the authors of this publication provide a wealth of hands on instruction for practical analysis and design of conformal antenna arrays Thus you get the knowledge you need alongside the practical know how to design antennas that are integrated into such structures aircrafts or skyscrapers

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