

# **Geometrical Theory of Diffraction for Electromagnetic Waves**

**Third Edition**

**Graeme L. James**

# Geometrical Theory Of Diffraction For Electromagnetic Waves Ieee Electromagnetic Waves Series

**I. Andronov, F. Molinet, D. Bouche**



## **Geometrical Theory Of Diffraction For Electromagnetic Waves Ieee Electromagnetic Waves Series:**

**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

**Modern Electromagnetic Scattering Theory with Applications** Andrey V. Osipov, Sergei A. Tretyakov, 2017-04-17 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

**Balanis' Advanced Engineering Electromagnetics** Constantine A. Balanis, 2024-01-31 Balanis Advanced Engineering Electromagnetics The latest edition of the foundational guide to advanced

electromagnetics Balanis third edition of Advanced Engineering Electromagnetics a global best seller for over 30 years covers the advanced knowledge engineers involved in electromagnetics need to know particularly as the topic relates to the fast moving continuously evolving and rapidly expanding field of wireless communications The immense interest in wireless communications and the expected increase in wireless communications systems projects antennas microwaves and wireless communications points to an increase in the number of engineers needed to specialize in this field Highlights of the 3rd Edition include A new chapter on Artificial Impedance Surfaces AIS contains material on current and advanced EM technologies including the exciting and fascinating topic of metasurfaces for Control and broadband RCS reduction using checkerboard designs Optimization of antenna fundamental parameters such as input impedance directivity realized gain amplitude radiation pattern Leaky wave antennas using 1 D and 2 D polarization diverse holographic high impedance metasurfaces for antenna radiation control and optimization Associated MATLAB programs for the design of checkerboard metasurfaces for RCS reduction and metasurface printed antennas and holographic L WA for radiation control and optimization Throughout the book there are Additional examples numerous end of chapter problems and PPT notes Fifty three MATLAB computer programs for computations graphical visualizations and animations Nearly 4 500 multicolor PowerPoint slides are available for self study or lecture use Scattering, Two-Volume Set E. R. Pike, Pierre C.

Sabatier, 2001-10-09 Scattering is the collision of two objects that results in a change of trajectory and energy For example in particle physics such as electrons photons or neutrons are scattered off of a target specimen resulting in a different energy and direction In the field of electromagnetism scattering is the random diffusion of electromagnetic radiation from air masses is an aid in the long range sending of radio signals over geographic obstacles such as mountains This type of scattering applied to the field of acoustics is the spreading of sound in many directions due to irregularities in the transmission medium Volume I of Scattering will be devoted to basic theoretical ideas approximation methods numerical techniques and mathematical modeling Volume II will be concerned with basic experimental techniques technological practices and comparisons with relevant theoretical work including seismology medical applications meteorological phenomena and astronomy This reference will be used by researchers and graduate students in physics applied physics biophysics chemical physics medical physics acoustics geosciences optics mathematics and engineering This is the first encyclopedic range work on the topic of scattering theory in quantum mechanics elastodynamics acoustics and electromagnetics It serves as a comprehensive interdisciplinary presentation of scattering and inverse scattering theory and applications in a wide range of scientific fields with an emphasis and details up to date developments Scattering also places an emphasis on the problems that are still in active current research The first interdisciplinary reference source on scattering to gather all world expertise in this technique Covers the major aspects of scattering in a common language helping to widening the knowledge of researchers across disciplines The list of editors associate editors and contributors reads like an international Who's Who in

the interdisciplinary field of scattering      **Asymptotic Methods in Electromagnetics** Daniel Bouche, Frederic Molinet, Raj Mittra, 2012-12-06 Numerically rigorous techniques for the computation of electromagnetic fields diffracted by an object become computationally intensive if not impractical to handle at high frequencies and one must resort to asymptotic methods to solve the scattering problem at short wavelengths The asymptotic methods provide closed form expansions for the diffracted fields and are also useful for eliciting physical interpretations of the various diffraction phenomena One of the principal objectives of this book is to discuss the different asymptotic methods in a unified manner Although the book contains explicit formulas for computing the field diffracted by conducting or dielectric coated objects it also provides the mathematical foundations of the different methods and explains how they are interrelated      *Handbook of Electromagnetic Compatibility* Reinaldo Perez, 2013-10-22 This book gives readers a concise understanding of the fundamentals of EMC from basic mathematical and physical concepts through present computer age methods used in analysis design and tests With contributions from leading experts in their fields the text provides a comprehensive overview Fortified with information on how to solve potential electromagnetic interference EMI problems that may arise in electronic design practitioners will be better able to grasp the latest techniques trends and applications of this increasingly important engineering discipline *Handbook of Electromagnetic Compatibility* contains extensive treatment of EMC applications to radio and wireless communications fiber optics communications and plasma effects Coverage of EMC related issues includes lightning electromagnetic pulse biological effects and electrostatic discharge Practical examples are used to illustrate the material and all information is presented in an accessible and organized format The text is intended primarily for those practicing engineers who need a good foundation in EMC but it will also interest faculty and students since a good portion of the material covered can find use in the classroom or as a springboard for further research The chapters are written by experts in the field Details the fundamental principles then moves to more advanced topics Covers computational electromagnetics applied to EMC problems Presents an extensive treatment of EMC applications to Radio and wireless communications Fiber optic communications Plasma effects Wired circuits Microchips Includes practical examples Fiber optic Communications Plasma effects Wired circuits Microchips Includes practical examples      **Advanced Engineering Electromagnetics** Constantine A. Balanis, 2012-01-24 Balanis second edition of *Advanced Engineering Electromagnetics* a global best seller for over 20 years covers the advanced knowledge engineers involved in electromagnetic need to know particularly as the topic relates to the fast moving continually evolving and rapidly expanding field of wireless communications The immense interest in wireless communications and the expected increase in wireless communications systems projects antenna microwave and wireless communication points to an increase in the number of engineers needed to specialize in this field In addition the Instructor Book Companion Site contains a rich collection of multimedia resources for use with this text Resources include Ready made lecture notes in Power Point format for all the chapters Forty nine MATLAB

programs to compute plot and animate some of the wave phenomena Nearly 600 end of chapter problems that s an average of 40 problems per chapter 200 new problems 50% more than in the first edition A thoroughly updated Solutions Manual 2500 slides for Instructors are included     *Handbook of Optical Systems, Volume 2* Wolfgang Singer, Michael Totzeck, Herbert Gross, 2006-05-12 The state of the art full colored handbook gives a comprehensive introduction to the principles and the practice of calculation layout and understanding of optical systems and lens design Written by reputed industrial experts in the field this text introduces the user to the basic properties of optical systems aberration theory classification and characterization of systems advanced simulation models measuring of system quality and manufacturing issues In this Volume Volume 2 continues the introduction given in volume 1 with the more advanced texts about the foundations of image formation Emphasis is placed on an intuitive while theoretically exact presentation More than 400 color graphs and selected references on the end of each chapter support this undertaking From the contents 17 Wave equation 18 Diffraction 19 Interference and coherence 20 Imaging 21 Imaging with partial coherence 22 Three dimensional imaging 23 Polarization 24 Polarization and optical imaging A1 Mathematical appendix Other Volumes Volume 1 Fundamentals of Technical Optics Volume 3 Aberration Theory and Correction of Optical Systems Volume 4 Survey of Optical Instruments Volume 5 Advanced Physical Optics     Integral Equation Methods for Electromagnetic and Elastic Waves Weng Chew, Mei-Song Tong, Bin HU, 2022-05-31 Integral Equation Methods for Electromagnetic and Elastic Waves is an outgrowth of several years of work There have been no recent books on integral equation methods There are books written on integral equations but either they have been around for a while or they were written by mathematicians Much of the knowledge in integral equation methods still resides in journal papers With this book important relevant knowledge for integral equations are consolidated in one place and researchers need only read the pertinent chapters in this book to gain important knowledge needed for integral equation research Also learning the fundamentals of linear elastic wave theory does not require a quantum leap for electromagnetic practitioners Integral equation methods have been around for several decades and their introduction to electromagnetics has been due to the seminal works of Richmond and Harrington in the 1960s There was a surge in the interest in this topic in the 1980s notably the work of Wilton and his coworkers due to increased computing power The interest in this area was on the wane when it was demonstrated that differential equation methods with their sparse matrices can solve many problems more efficiently than integral equation methods Recently due to the advent of fast algorithms there has been a revival in integral equation methods in electromagnetics Much of our work in recent years has been in fast algorithms for integral equations which prompted our interest in integral equation methods While previously only tens of thousands of unknowns could be solved by integral equation methods now tens of millions of unknowns can be solved with fast algorithms This has prompted new enthusiasm in integral equation methods Table of Contents Introduction to Computational Electromagnetics Linear Vector Space Reciprocity and Energy Conservation

Introduction to Integral Equations Integral Equations for Penetrable Objects Low Frequency Problems in Integral Equations  
 Dyadic Green's Function for Layered Media and Integral Equations Fast Inhomogeneous Plane Wave Algorithm for Layered  
 Media Electromagnetic Wave versus Elastic Wave Glossary of Acronyms      *Computational Electromagnetics* Raj  
 Mittra, 2013-08-20 Emerging Topics in Computational Electromagnetics in Computational Electromagnetics presents  
 advances in Computational Electromagnetics This book is designed to fill the existing gap in current CEM literature that only  
 cover the conventional numerical techniques for solving traditional EM problems The book examines new algorithms and  
 applications of these algorithms for solving problems of current interest that are not readily amenable to efficient treatment  
 by using the existing techniques The authors discuss solution techniques for problems arising in nanotechnology bioEM  
 metamaterials as well as multiscale problems They present techniques that utilize recent advances in computer technology  
 such as parallel architectures and the increasing need to solve large and complex problems in a time efficient manner by  
 using highly scalable algorithms      **Fields, Networks, Computational Methods, and Systems in Modern**  
**Electrodynamics** Peter Russer, Mauro Mongiardo, 2013-04-17 On June 1st 2004 the Faculty of Electrical Engineering and  
 Information Technology of the Technische Universität München bestowed the degree of the doctor honoris causa to Leopold  
 B Felsen for extraordinary achievements in the theory of electromagnetic fields On this occasion on June 1st and 2nd 2004  
 at the Technische Universität München a symposium on Fields Networks Computational Methods and Systems A Modern  
 View of Engineering Electrodynamics in honor of Leopold B Felsen was organized The symposium topic focused on an  
 important area of Leopold Felsen research interests and as the title emphasizes on a modern view of applied Electro-  
 dynamics While the fundamental physical laws of electrodynamics are well known research in this field is experiencing a  
 steady continuous growth The problem solving approaches of say twenty years ago may seem now fairly obsolete since  
 considerable progress has been made in the meantime In this monograph we collect samples of present day state of the art in  
 dealing with electromagnetic fields their network theory representation their computation and finally on system applications  
 The network formulation of field problems can improve the problem formulation and also contribute to the solution  
 methodology Network theory systematic approaches for circuit analysis are based on the separation of the circuit into the  
 connection circuit and the circuit elements Many applications in science and technology rely on computations of the  
 electromagnetic field in either man made or natural complex structures      **Fundamentals of the Physical Theory of**  
**Diffraction** Pyotr Ya. Ufimtsev, 2007-02-09 This book is the first complete and comprehensive description of the modern  
 Physical Theory of Diffraction PTD based on the concept of elementary edge waves EEWs The theory is demonstrated with  
 the example of the diffraction of acoustic and electromagnetic waves at perfectly reflecting objects The derived analytic  
 expressions clearly explain the physical structure of the scattered field and describe in detail all of the reflected and  
 diffracted rays and beams as well as the fields in the vicinity of caustics and foci Shadow radiation a new fundamental

component of the field is introduced and proven to contain half of the total scattered power      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      Electromagnetic Modeling and Simulation Levent Sevgi, 2014-03-13 This unique book presents simple easy to use but effective short codes as well as virtual tools that can be used by electrical electronic communication and computer engineers in a broad range of electrical engineering problems Electromagnetic modeling is essential to the design and modeling of antenna radar satellite medical imaging and other applications In this book author Levent Sevgi explains techniques for solving real time complex physical problems using MATLAB based short scripts and comprehensive virtual tools Unique in coverage and tutorial approach Electromagnetic Modeling and Simulation covers fundamental analytical and numerical models that are widely used in teaching research and engineering designs including mode and ray summation approaches with the canonical 2D nonpenetrable parallel plate waveguide as well as FDTD MoM and SSPE scripts The book also establishes an intelligent balance among the essentials of EM MODSIM The Problem the physics The Theory and Models mathematical background and analytical solutions and The Simulations code developing plus validation verification and calibration Classroom tested in graduate level and short courses Electromagnetic Modeling and Simulation Clarifies concepts through numerous worked problems and quizzes provided throughout the book Features valuable MATLAB based user friendly effective engineering and research virtual design tools Includes sample scenarios and video clips recorded during characteristic simulations that visually impact learning available on wiley com Provides readers with their first steps in EM MODSIM as well as tools for medium and high level code developers and users Electromagnetic Modeling and Simulation thoroughly covers the physics mathematical background analytical solutions and code development of electromagnetic modeling making it an ideal resource for electrical engineers and researchers      **Wireless Communications Design Handbook** Reinaldo Perez, 1998-10-17 The need for controlling interference and limiting noise problems in wireless communications systems starts at the most fundamental levels of circuit design When efficient approaches for noise control are implemented at the circuit level it helps significantly to ensure the effective noise control for the overall system design This book is a practical reference for engineers who are particularly interested in practical case studies covering how to avoid undesired interference and noise problems in their designs It covers a significant number of chapters dedicated to different aspects of digital analog and mixed mode analog digital design which are directly affected by noise and interference issues Each of the three Wireless Communications Design Handbook



volumes addresses theory and immediate applications The approach followed is strictly hardware oriented The material presented provides a good practical and theoretical background of noise sources and their analysis as well as methodologies for minimizing interference problems in electronic design An applications oriented reference for engineers system designers and practitioners Includes computational techniques for simulation Addresses the most common interference concerns in wireless communications circuit designs Presents a hardware oriented approach for addressing analog digital and mixed made interference concerns with a focus on design Addresses noise sources interference models and design solutions simultaneously Combines analytical and computer modeling for interference analysis Addresses interference concerns from the IC level to the subsystem level      Antennas Yi Huang, 2021-09-14 Antennas From Theory to Practice Comprehensive coverage of the fundamentals and latest developments in antennas and antenna design In the newly revised Second Edition of Antennas From Theory to Practice renowned researcher engineer and author Professor Yi Huang delivers comprehensive and timely coverage of issues in modern antenna design and theory Practical and accessible the book is written for engineers researchers and students who work with radio frequency microwave engineering radar and radio communications The book details the basics of transmission lines radiowaves and propagation antenna theory antenna analysis and design using industrial standard design software tools and the theory of characteristic modes antenna measurement equipment facilities and techniques It also covers the latest developments in special topics like small and mobile antennas wide and multi band antennas automotive antennas RFID UWB metamaterials reconfigurable and MIMO antennas and more The new edition includes up to date information on a wide variety of newly relevant topics and trends like adaptive impedance matching the theory of characteristic modes antenna materials and fabrication processes and over the air OTA antenna system measurements Many questions and examples are provided which enhances the learning experience The book covers An introduction to circuit concepts and transmission lines including lumped and distributed element systems transmission line theory and the Smith Chart An exploration of field concepts and radiowaves including wave equations and solutions and radiowave propagation mechanisms characteristics and models Discussions of antenna basics and popular antennas including wire type antennas aperture type antennas and antenna arrays Information about antenna manufacturing and measurements including antenna measurement facilities and methods The use of industrial standard simulation tools for antenna design and analysis Perfect for engineers and researchers who work in RF engineering or radar and radio communications Antennas From Theory to Practice Second Edition will also earn a place on the bookshelves of university students seeking a concise and practical introduction to the basics of antennas and antenna design      **Radio Wave Propagation and Parabolic Equation Modeling** Gokhan Apaydin, Levent Sevgi, 2017-08-31 An important contribution to the literature that introduces powerful new methods for modeling and simulating radio wave propagation A thorough understanding of electromagnetic wave propagation is fundamental to the development of sophisticated communication and

detection technologies The powerful numerical methods described in this book represent a major step forward in our ability to accurately model electromagnetic wave propagation in order to establish and maintain reliable communication links to detect targets in radar systems and to maintain robust mobile phone and broadcasting networks The first new book on guided wave propagation modeling and simulation to appear in nearly two decades Radio Wave Propagation and Parabolic Equation Modeling addresses the fundamentals of electromagnetic wave propagation generally with a specific focus on radio wave propagation through various media The authors explore an array of new applications and detail various virtual electromagnetic tools for solving several frequent electromagnetic propagation problems All of the methods described are presented within the context of real world scenarios typifying the differing effects of various environments on radio wave propagation This valuable text Addresses groundwave and surface wave propagation Explains radar applications in terms of parabolic equation modeling and simulation approaches Introduces several simple and sophisticated MATLAB scripts Teaches applications that work with a wide range of electromagnetic acoustic and optical wave propagation modeling Presents the material in a quick reference format ideal for busy researchers and engineers Radio Wave Propagation and Parabolic Equation Modeling is a critical resource forelectrical electronics communication and computer engineers working on industrial and military applications that rely on the directed propagation of radio waves It is also a useful reference for advanced engineering students and academic researchers *The Cable and Telecommunications Professionals' Reference* Goff Hill,2012-07-26 Volume 2 of TERB 3ed covers the convergence of telephony and data transport including wireless networks Now that data is becoming the predominant source of traffic more efficient multiplexing schemes and more flexible control methods are needed in the transport network such as giving the customer the ability to call for bandwidth on demand With the development of control methods for switched data services it is now recognised that improved ways to control the transport network are possible and standards initiatives are taking place to establish and improve the network control layer Detailed explanation of propagation in wireless and optical fibre systems requires a substantial amount of mathematics also covered in this volume For each of the math chapters there is an explanation of why the mathematics is important where it is applied and references to other chapters *Aperture Antennas and Diffraction Theory* Edward V. Jull,1981 Two alternative methods of aperture antenna analysis are described in this book **Fundamentals of Aperture Antennas and Arrays** Trevor S. Bird,2016-01-19 This book is intended as an advanced text for courses in antennas with a focus on the mature but vital background field of aperture antennas The book is aimed at final year MSc PhD and Post Doctoral students as well as readers who are moving from academia into industry beginning careers as wireless engineers system designers in R D or for practising engineers It assumes the reader has undertaken an earlier course of study on Maxwell s equations fields and waves Some of these topics are summarised in the early few chapters in order to provide continuity and background for the remaining chapters The aperture antennas covered include the main types of horns reflectors and arrays as well as

microstrip patches reflectarrays and lenses To provide more than a superficial treatment of arrays the topic of mutual coupling is covered in greater detail than most similar books in the area Also included is an introduction to arrays on non planar surfaces which is of importance for applications that involve curved surfaces such as in aerodynamics or for making aperture antennas unobtrusive A chapter is included on some modern aperture antennas to illustrate design techniques beyond the most common types of aperture antennas described in the early chapters This is to show where advances have recently been made and where they could be improved in the future Also included are selected topics of a practical nature for aperture antennas namely fabrication and measurement

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