

26. Electromagnetic Wave Theory and Remote Sensing

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26.1 Electromagnetic Waves

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As An Editor, Ananthanarayan Saenger, Jeff Kang

Electromagnetic waves are studied with applications to geophysical subsurface probing,^[1,2] Smith–Purcell radiation from metallic gratings,³ scattering from interconnected plate,⁴ and with the intensity of snowfall focus wave mode.⁵ The electromagnetic field due to dipole antennas in a two-layer medium is modeled, in such as the case, is solved using the quasi-static approximation,⁶ no variations in integral forms are calculated with finite time numerical integration methods, the multi-image approach with the sweeping method method, the modal approach by finding the residues, and a hybrid approach combining the latter two methods.⁷ The Smith–Purcell radiation problem which takes into account the phenomena properties of metallic gratings is solved.⁸ An electron beam moving across the surface of a metallic grating will cause emission of electromagnetic radiation. It is shown that maximum radiation occurs when the surface plasmon mode is excited. The scattering problem involving interconnected plates is solved with the help of the method of moments.⁹ By defining independent basis functions on overlapping conductors and then joining them at the common edges, we can model complex structures efficiently while satisfying Kirchhoff's current law on the surface of the conductors. The focus wave modes refer to electromagnetic waves that run on a localized in the three-dimensional space and propagate at the speed of light without dispersing. We have shown that such waves must have infinite electromagnetic energy in the source-free, three-dimensional space.¹⁰ A general formula on first perturbations in complete set of plane wave modes with Floquet–Goussard's boundary condition is developed.

Research Topics In Electromagnetic Wave Theory

L Reisser



Research Topics In Electromagnetic Wave Theory:

Research Topics in Electromagnetic Wave Theory Jin Au Kong, 1981-04-23 Reviews diverse current applications of electromagnetic wave theory particularly those of interest in aerospace and defense research Uses the topic of random media to model the ionosphere and the earth terrain with applications to pulse distortion and microwave remote sensing Studies inhomogeneous plasmas and magnetized ferrites for the propagation reflection and transmission of electromagnetic waves with a variational formalism and a coordinate invariant method and from the point of view of linear mode conversion Treats result sensing based on microwave radiometer for earth terrain and line of sight method for atmosphere parameters Examines the interaction of electromagnetic fields with biological bodies In the antenna field coverage encompasses the topics of broadband antenna arrays dipole radiation in stratified media insulated linear antennas and offset feed reflector antennas

Electromagnetic Wave Propagation, Radiation, and Scattering Akira Ishimaru, 2017-09-05 One of the most methodical treatments of electromagnetic wave propagation radiation and scattering including new applications and ideas Presented in two parts this book takes an analytical approach on the subject and emphasizes new ideas and applications used today Part one covers fundamentals of electromagnetic wave propagation radiation and scattering It provides ample end of chapter problems and offers a 90 page solution manual to help readers check and comprehend their work The second part of the book explores up to date applications of electromagnetic waves including radiometry geophysical remote sensing and imaging and biomedical and signal processing applications Written by a world renowned authority in the field of electromagnetic research this new edition of *Electromagnetic Wave Propagation Radiation and Scattering From Fundamentals to Applications* presents detailed applications with useful appendices including mathematical formulas Airy function Abel's equation Hilbert transform and Riemann surfaces The book also features newly revised material that focuses on the following topics Statistical wave theories which have been extensively applied to topics such as geophysical remote sensing bio electromagnetics bio optics and bio ultrasound imaging Integration of several distinct yet related disciplines such as statistical wave theories communications signal processing and time reversal imaging New phenomena of multiple scattering such as coherent scattering and memory effects Multiphysics applications that combine theories for different physical phenomena such as seismic coda waves stochastic wave theory heat diffusion and temperature rise in biological and other media Metamaterials and solitons in optical fibers nonlinear phenomena and porous media Primarily a textbook for graduate courses in electrical engineering *Electromagnetic Wave Propagation Radiation and Scattering* is also ideal for graduate students in bioengineering geophysics ocean engineering and geophysical remote sensing The book is also a useful reference for engineers and scientists working in fields such as geophysical remote sensing bio medical engineering in optics and ultrasound and new materials and integration with signal processing

Electromagnetic wave theory of photons SHUANG-REN ZHAO, During the author's graduate studies in electromagnetic

waves at Xidian University China in 1987 He published the electromagnetic field mutual energy theorem Later the author worked in medical imaging in Germany Canada and the United States 30 years later the author discovered this theorem not only the energy theorem but also the law of conservation of energy And further discovered the law of mutual energy flow And it was found that the mutual energy flow has the shape of photon with sharp particles at both ends and coarse waves in the middle Strangely Maxwell s equation cannot prove this law of energy conservation As a result the author discovered a loophole in Maxwell s electromagnetic theory The author fills the gap in Maxwell s electromagnetic theory by proposing a new electromagnetic axiom that radiation does not overflow into the universe Thus a classical electromagnetic theory that can include photons was established Successfully solved wave particle duality problems such as wave collapse

Electromagnetic Wave Theory Jin Au Kong,1990 This is a first year graduate text on electromagnetic field theory emphasizing mathematical approaches problem solving and physical interpretation Examples deal with guidance propagation radiation and scattering of electromagnetic waves metallic and dielectric wave guides resonators antennas and radiating structures Cerenkov radiation moving media plasmas crystals integrated optics lasers and fibers remote sensing geophysical probing dipole antennas and stratified media *Publications of the National Bureau of Standards* United States. National Bureau of Standards,1981 *Partially Coherent Optical Transmission Theory in Optical Wireless Communication* Xizheng Ke,2024-10-30 This book introduces the theory and research methods of partially coherent optical points out the significance of this study analyzes the basic theories involved in partially coherent light and explains the complete coherence of laser is not a necessary condition for good directivity and partially spatially coherent optical sources can also produce the same far field intensity distribution as lasers This type of beam with good directivity but only partial spatial coherence is called a Gaussian Schell model beam which can be used as a physical model to describe multimode lasers under certain conditions This book is applicable to the large number of engineers and technicians involved in wireless optical communication and college teachers It can also be used as a teaching material for graduate students and senior undergraduates in related fields

Publications of the National Institute of Standards and Technology ... Catalog National Institute of Standards and Technology (U.S.),1982 *Journal of Research of the National Bureau of Standards* United States. National Bureau of Standards,1988 *CRC Handbook of Biological Effects of Electromagnetic Fields* Charles Polk,2019-07-23 The objective of this book is to present in a concise manner what is actually known at the present time about biological effects of time invariant low frequency and radio frequency including microwave electric and magnetic fields In reviewing the vast amount of experimental data which have been obtained in recent years the authors tried to select those results that are in their opinion of major importance and of lasting value In discussing mechanisms of interaction of electromagnetic fields with living matter they have tried to differentiate between what is clearly established what is suggested by available evidence without being convincingly proven and what is conjecture at the present time *Modern Bioelectricity* Andrew A.

Marino,2020-08-26 This book presents an overview of the field of bioelectricity by demonstrating the biological significance of electromagnetic fields electrical properties of tissue biological effects of electromagnetic energy and therapeutic applications and health hazards of electromagnetic energy Electromagnetic Wave Theory for Boundary-Value Problems

Hyo J. Eom,2013-06-29 Electromagnetic wave theory is based on Maxwell s equations and electromagnetic boundary value problems must be solved to understand electromagnetic scattering propagation and radiation Electromagnetic theory finds practical applications in wireless telecommunications and microwave engineering This book is written as a text for a two semester graduate course on electromagnetic wave theory As such Electromagnetic Wave Theory for Boundary Value Problems is intended to help students enhance analytic skills by solving pertinent boundary value problems In particular the techniques of Fourier transform mode matching and residue calculus are utilized to solve some canonical scattering and radiation problems **Electromagnetic Wave Theory** J. C. Brown,2016-01-21 International Series of Monographs in Electromagnetic Waves Volume 11 Electromagnetic Wave Theory Part 1 covers the proceedings of an International Scientific Radio Union U R S I Symposium on Electromagnetic Wave Theory The book contains 61 chapters that are organized into three sections The first section presents papers about wave propagation which includes lateral waves terrestrial waveguides and plane waves in dissipative media Next the title reviews studies about wave guides including basic properties of periodic waveguides theoretical investigation of non uniform waveguides and waves in a coaxial line partially filled with plasma The last section covers topics about surface waves such as a dielectric prism in the corner of overmoded waveguide lasers and optical communication systems and microwave and laser resonators The text will be of great use to researchers and practitioners of disciplines that study or utilize electromagnetic wave technologies such as electrotechnics and electrical engineering *Publications of the National Bureau of Standards ... Catalog* United States. National Bureau of Standards,1981 *Electromagnetic Waves* Vitaliy Zhurbenko,2011-06-21 This book is dedicated to various aspects of electromagnetic wave theory and its applications in science and technology The covered topics include the fundamental physics of electromagnetic waves theory of electromagnetic wave propagation and scattering methods of computational analysis material characterization electromagnetic properties of plasma analysis and applications of periodic structures and waveguide components and finally the biological effects and medical applications of electromagnetic fields *United States Air Force Research and Other Programs of the Office of Aerospace Research for Fiscal Years 1965-1966* United States. Air Force. Office of Aerospace Research,1965 Electromagnetic Radiation, Scattering, and Diffraction Prabhakar H. Pathak,Robert J. Burkholder,2021-12-21 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

Scientific and Technical Aerospace Reports ,1991 *Atti della Fondazione Giorgio Ronchi* , **Electromagnetic Waves** ,1997 The Shock and Vibration Digest ,1983

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