

26. Electromagnetic Wave Theory and Remote Sensing

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26.1 Electromagnetic Waves

2014 Remote Sensing Research Document DAAG20-173 4-00003

As An Ki-ae, Anbumnam Saeghien, Jeff Kang

Electromagnetic waves are studied with applications to geophysical subsurface probing.^[1,2] Smith–Purcell radiation from metallic gratings,³ scattering from inhomogeneous plate,⁴ and with the intensity of snowfall focus wave mode.⁵ The electromagnetic field due to dipole antennas in a two-layer periodic medium, such as the DDA, is solved using the quasi-static approximation.⁶ The variations in integral forms are calculated with finite time numerical integration methods. The multi-image approach with the ray-trace 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 inhomogeneous plate 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 two-dimensional plane 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 diffraction is considered set of plane wave modes with Floquet–Goursat's boundary condition is developed.

Research Topics In Electromagnetic Wave Theory

Jin Au Kong



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, 2017-10-27 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 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 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

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 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 Publications of the National Institute of Standards and Technology ... Catalog National Institute of Standards and Technology (U.S.), 1982 *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 *Publications of the National Bureau of Standards* United States. National Bureau of Standards, 1981 *Journal of Research of the National Bureau of Standards* United States. National Bureau of Standards, 1988 Electromagnetic Waves, 1997 *Publications* United States. National Bureau of Standards, 1982 Interaction of Electromagnetic Waves with Heterogeneous Bodies of Arbitrary Shape and Parameters Huei Wang, 1987 *Electromagnetic Waves* Carlo G. Someda, 2017-12-19 Adapted from a successful and thoroughly field tested Italian text the first edition of *Electromagnetic Waves* was very well received Its broad integrated coverage of electromagnetic waves and their applications forms the cornerstone on which the author based this second edition Working from Maxwell's equations to applications in optical communications and photonics *Electromagnetic Waves* Second Edition forges a link between basic physics and real life problems in wave propagation and radiation Accomplished researcher and educator Carlo G Someda uses a modern approach to the subject Unlike other books in the field it surveys all major areas of electromagnetic waves in a single treatment The book begins with a detailed treatment of the mathematics of Maxwell's equations It follows with a discussion of polarization delves into propagation in various media devotes four chapters to guided propagation links the concepts to practical applications and concludes with radiation diffraction coherence and radiation statistics This edition features many new and reworked problems updated references and suggestions for further reading a completely revised appendix on Bessel functions and new definitions such as antenna effective height Illustrating the concepts with examples in every chapter *Electromagnetic Waves* Second Edition is an ideal introduction for those new to the field as well as a

convenient reference for seasoned professionals Scientific and Technical Aerospace Reports ,1990 *Waves and Fields in Inhomogeneous Media* Weng Cho Chew,1999-02-02 Electrical Engineering Electromagnetics Waves and Fields in Inhomogeneous Media A Volume in the IEEE Press Series on Electromagnetic Waves Donald G Dudley Series Editor it is one of the best wave propagation treatments to appear in many years Gerardo G Tango CPG Consulting Seismologist Acoustician Covington LA This comprehensive text thoroughly covers fundamental wave propagation behaviors and computational techniques for waves in inhomogeneous media The author describes powerful and sophisticated analytic and numerical methods to solve electromagnetic problems for complex media and geometry as well Problems are presented as realistic models of actual situations which arise in the areas of optics radio wave propagation geophysical prospecting nondestructive testing biological sensing and remote sensing Key topics covered include Analytical methods for planarly cylindrically and spherically layered media Transient waves including the Cagniard de Hoop method Variational methods for the scalar wave equation and the electromagnetic wave equation Mode matching techniques for inhomogeneous media The Dyadic Green s function and its role in simplifying problem solving in inhomogeneous media Integral equation formulations and inverse problems Time domain techniques for inhomogeneous media This book will be of interest to electromagnetics and remote sensing engineers physicists scientists and geophysicists This IEEE Press reprinting of the 1990 version published by Van Nostrand Reinhold incorporates corrections and minor updating Also in the series Mathematical Foundations for Electromagnetic Theory by Donald G Dudley University of Arizona at Tucson This volume in the series lays the mathematical foundations for the study of advanced topics in electromagnetic theory Important subjects covered include linear spaces Green s functions spectral expansions electromagnetic source representations and electromagnetic boundary value problems 1994 Hardcover 264 pp ISBN 0 7803 1022 5 IEEE Order No PC3715 About the Series The IEEE Press Series on Electromagnetic Waves consists of new titles as well as reprints and revisions of recognized classics that maintain long term archival significance in electromagnetic waves and applications Designed specifically for graduate students practicing engineers and researchers this series provides affordable volumes that explore electromagnetic waves and applications beyond the undergraduate level **Atti della Fondazione Giorgio Ronchi , Engineering Electromagnetics Explained** Lakshman Kalyan,2025-02-20 Engineering Electromagnetics Explained is a comprehensive textbook designed to provide students with a solid foundation in the principles and applications of electromagnetics Written by leading experts this book covers fundamental concepts theoretical frameworks and practical applications in engineering We start with basic principles of electromagnetism including Coulomb s Law Gauss s Law and Maxwell s Equations then delve into advanced topics such as electromagnetic waves transmission lines waveguides antennas and electromagnetic compatibility EMC Key Features Clear and concise explanations of fundamental electromagnetics concepts Numerous examples and illustrations to aid understanding Practical applications and real world examples demonstrating electromagnetics relevance in engineering

Comprehensive coverage of topics including transmission lines waveguides antennas and EMC End of chapter problems and exercises to reinforce learning This textbook is suitable for undergraduate and graduate students in electrical engineering electronics and communication engineering and related disciplines It serves as an essential resource for courses on electromagnetics electromagnetic field theory and electromagnetic compatibility Additionally practicing engineers and researchers will find this book a valuable reference for understanding and applying electromagnetics principles in their work

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