



**ELSEVIER INSIGHTS**



# **ELECTROMAGNETIC SURFACE WAVES**

**A MODERN PERSPECTIVE**

**JOHN A. POLO, Jr. • TOM G. MACKAY  
AKHLESH LAKHTAKIA**

# Electromagnetic Surface Waves A Modern Perspective Elsevier Insights

**Ian Stuart Robinson**



## **Electromagnetic Surface Waves A Modern Perspective Elsevier Insights:**

**Electromagnetic Surface Waves** John Polo, Tom Mackay, Akhlesh Lakhtakia, 2013-05-31 For decades the surface plasmon polariton wave guided by the interface of simple isotropic materials dominated the scene. However, in recent times research on electromagnetic surface waves guided by planar interfaces has expanded into new and exciting areas. In the 1990s, research focused on advancing knowledge of the newly discovered Dyakonov wave. More recently, much of the surface wave research is motivated by the proliferation of nanotechnology and the growing number of materials available with novel properties. This book leads the reader from the relatively simple surface plasmon polariton wave with isotropic materials to the latest research on various types of electromagnetic surface waves guided by the interfaces of complex materials enabled by recent developments in nanotechnology. This includes Dyakonov waves guided by interfaces formed with columnar thin films, Dyakonov-Tamm waves guided by interfaces formed with sculptured thin films, and multiple modes of surface plasmon polariton waves guided by the interface of a metal and a periodically varying dielectric material. Gathers research from the past 5 years in a single comprehensive view of electromagnetic surface waves. Written by the foremost experts and researchers in the field. Layered presentation explains topics with an introductory overview level up to a highly technical level. Bulletin of the Atomic Scientists, 1972-10 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world. Physics Briefs, 1994 **A Study of Electromagnetic Surface-waves**, 1954 **Electromagnetic Surface Waves in Microwave Absorbing Layers** PYOTR YA.. LING

UFIMTSEV (RUNG T.. APAYDIN, GOKHAN.), Rung T. Ling, Gökhan Apaydin, 2024-07 This book introduces you to the world of electromagnetic waves. It contains a detailed analysis of electromagnetic surface waves in microwave absorbing layers. The surface waves play an important role in the complex scattering and absorption process. Although microwave absorbing coatings have been widely used since the Second World War, their properties have not been sufficiently studied. The authors have investigated surface waves in actual microwave absorbing layers in detail. This book demystifies complicated subjects and is ideal for researchers, engineers, and students. This book is essential for everyone, experienced professionals as well as those just entering the industry. Discover electromagnetic waves in a brand new way to transform how you perceive contemporary technologies. Electromagnetic Surface Modes Alan D. Boardman, **Nonlinear Surface**

**Electromagnetic Phenomena** H.-E. Ponath, G.I. Stegeman, 2012-12-02 In recent years the physics of electromagnetic surface phenomena has developed rapidly, evolving into technologies for communications and industry such as fiber and integrated optics. The variety of phenomena based on electromagnetism at surfaces is rich, and this book was written with the aim of summarizing the available knowledge in selected areas of the field. The book contains reviews written by solid state and optical physicists on the nonlinear interaction of electromagnetic waves at and with surfaces and films. Both the physical

phenomena and some potential applications are dealt with Included are discussions of nonlinear wave mixing on films and surfaces second harmonic generation in waveguides and at surfaces nonlinear waves guided by dielectric and semiconductor surfaces and films surface gratings formed by high energy laser beams and reflection and transmission switching of strong beams onto nonlinear surfaces Chapters on light scattering from surface excitations and magnetic order disorder and orientational phase transitions complete this essential contribution to the modern optics literature

**Exceptional**

**Electromagnetic Surface Waves and Compound Waves** Chenzhang Zhou, 2021 The propagation of electromagnetic surface waves is guided by the interface of two dissimilar mediums The electromagnetic fields have significant magnitudes only in the vicinity of that interface Researchers have identified various types of electromagnetic surface waves such as Uller Zenneck waves Dyakonov surface waves Tamm waves Dyakonov Tamm waves and surface plasmon polariton waves Due to their sensitivity to the constitutive parameters of the partnering mediums they have been exploited in many applications such as sensing and microscopy In particular the ability of propagation with negligible attenuation of the Dyakonov surface wave makes it promising in long range communications Apart from the propagation of surface waves compound waves guided by tri material structures also caught the attention of researchers The propagation of compound waves arises due to the strong interaction between the two parallel interfaces which is greatly dependent on the thickness of the thin film sandwiched in between two mediums The thickness of the thin film is usually in the order of 10 50 nanometers while the thicknesses of the other two mediums are assumed to be so much larger as to represent half spaces In particular if the thin film is taken to be a metal then one or several compound plasmon polariton wave modes may propagate The propagation of multiple wave modes makes them promising in applications such as optical sensing microscopy and solar energy harvesting In the past decades research into electromagnetic surface waves and compound waves has been focused on the propagation of unexceptional surface waves and unexceptional compound waves The surface and compound waves mentioned above fall into these two categories The propagation of these waves is restricted to a continuous range of directions in each quadrant usually with four fold symmetry The fields in the partnering mediums exhibit exponential decay from the interface s This thesis work introduces electromagnetic surface waves of a new type called exceptional surface waves Under this category various types of surface waves are investigated Dyakonov Voigt waves Dyakonov Tamm Voigt waves and surface plasmon polariton Voigt waves These surface waves require that at least one of the partnering mediums is anisotropic Similarly electromagnetic compound waves of a new type called exceptional compound waves are introduced Of the two mediums with larger thicknesses at least one has to be anisotropic for the propagation of exceptional compound waves An exceptional compound plasmon polariton wave is an example under this category Differently from their unexceptional counterparts the propagation of exceptional surface waves and compound waves is allowed at discrete propagation angles in each quadrant so far exclusively with four fold symmetry The emergence of those exceptional guided waves is due to the non diagonalizable form

of the propagation matrix associated with the anisotropic medium As a result they are fundamentally different from unexceptional guided waves in that their fields in the anisotropic medium decay as the product of a linear function and an exponential function of the distance away from the interface      **Adventures in Contemporary Electromagnetic Theory**

Tom G. Mackay, Akhlesh Lakhtakia, 2023-07-31 This book describes the most recent advances in electromagnetic theory motivated and partly informed by developments in engineering science and nanotechnology The collection of chapters provided in this edited book authored by leading experts in the field offers a bird's eye view of recent progress in electromagnetic theory spanning a wide range of topics of current interest ranging from fundamental issues to applications

Surface Polaritons Vladimir Moiseevich Agranovich, 1982      *Analysis, Approximation, and Stability of Electromagnetic Surface Waves* Mathias Ionescu-Tira, 2023\* Using a functional analytic approach we study various aspects of nonlinear nonlocal Maxwell equations in matter such as local as well as global well posedness and exponential stability The results obtained are applied in a case study with the goal to rigorously justify a slowly varying amplitude approximation of surface wave packets at a flat interface between homogeneous and dispersive nonlinear media      **Excitation of Surface Waves**

Bernard Friedman, W. Elwyn Williams, 1956      **Lateral Electromagnetic Waves** Ronald W.P. King, Margaret Owens, 1992-05-14 This work starting from a coverage of electromagnetic surface waves goes on to introduce the unusual properties and useful applications of lateral waves particularly the case of dipoles on the Earth and their use in investigations of the upper crust and mantle      Electromagnetic Surface Waves Supported by a Half-space of a Counterstreaming Plasma

K. W. Ha, S. R. Seshadri, 1974      **Electromagnetic Surface Wave Propagation in the Presence of a One-dimensional Negative Differential Conductance** David Baughn Matthews, 1972      **Modern Electromagnetic Scattering Theory with Applications** Andrey V. Osipov, Sergei A. Tretyakov, 2017-01-31 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      Electromagnetic Surface Excitations Richard F. Wallis, Theodor Tamir, George I. Stegeman, 2011-12-16

This volume is based on lectures and contributed papers presented at the Eighth Course of the International School of Materials Science and Technology that was held in Erice Sicily Italy at the Ettore Majorana Centre for Scientific Culture during the period 1-13 July 1985 The subject of the course was Electromagnetic Surface Excitations Forty lectures were given by eleven distinguished scientists and engineers from France Italy the United Kingdom and the United States In addition to the lecturers approximately fifty participants representing eleven different countries throughout the world took part in the course Short contributed papers were presented by seventeen participants on the results of their own research The subject of the Course is of great importance for both pure science and for practical applications such as

telecommunications A technological revolution is occurring in which the transmission of information by means of electrical currents travelling in copper wires is being replaced by transmission by means of light travelling in objects known as optical wave guides The manipulation and processing of the light signals prior and subsequent to transmission through the wave guide has resulted in a technology often referred to as integrated optics Important to the operation of integrated optics devices is the behavior of electromagnetic waves near surfaces and interfaces One of the goals of the course was to further the dialogue between engineers and physicists in common areas of interest related to the propagation of electromagnetic waves along surfaces

**Wave Propagation in Materials for Modern Applications** Andrey Petrin, 2010-01-01 In the recent decades there has been a growing interest in micro and nanotechnology The advances in nanotechnology give rise to new applications and new types of materials with unique electromagnetic and mechanical properties This book is devoted to the modern methods in electrodynamics and acoustics which have been developed to describe wave propagation in these modern materials and nanodevices The book consists of original works of leading scientists in the field of wave propagation who produced new theoretical and experimental methods in the research field and obtained new and important results The first part of the book consists of chapters with general mathematical methods and approaches to the problem of wave propagation A special attention is attracted to the advanced numerical methods fruitfully applied in the field of wave propagation The second part of the book is devoted to the problems of wave propagation in newly developed metamaterials micro and nanostructures and porous media In this part the interested reader will find important and fundamental results on electromagnetic wave propagation in media with negative refraction index and electromagnetic imaging in devices based on the materials The third part of the book is devoted to the problems of wave propagation in elastic and piezoelectric media In the fourth part the works on the problems of wave propagation in plasma are collected The fifth sixth and seventh parts are devoted to the problems of wave propagation in media with chemical reactions in nonlinear and disperse media respectively And finally in the eighth part of the book some experimental methods in wave propagations are considered It is necessary to emphasize that this book is not a textbook It is important that the results combined in it are taken from the desks of researchers Therefore I am sure that in this book the interested and actively working readers scientists engineers and students will find many interesting results and new ideas

Anisotropic Surface Waves and Instabilities Under a Vertical Electromagnetic Force Ian Stuart Robinson, 1973 Electromagnetic Waves Carlo G. Someda, 1998-05-12 This book provides a comprehensive treatment of electromagnetic waves The author's approach is thoroughly modern and unlike many others this text offers a unified view of electromagnetic waves and their applications in telecommunications radar and photonics The extensive coverage of Electromagnetic Waves begins with Maxwell's equations and takes students on the journey from the wave and Helmholtz equations through polarization plane waves and wave beams and packets to antennas transmission lines and waveguides Completing the treatment are chapters devoted to diffraction and an introduction to the

theory of coherence The author strikes an effective balance of the teach through concepts and teach by example approaches The book is filled with exercises current applications and exercises that solidify students understanding and bring relevance to the material It forms an outstanding text for senior undergraduates and graduate level students in electrical engineering and physics

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