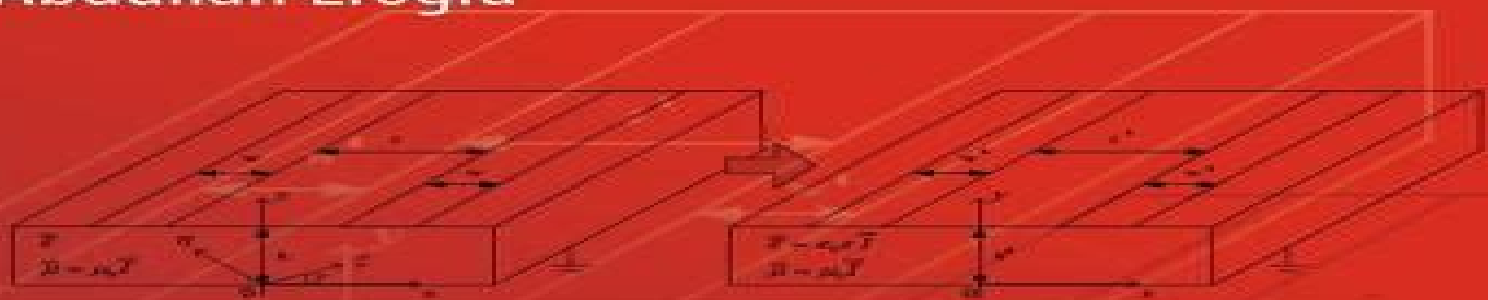


Abdullah Eroglu



# Wave Propagation and Radiation in Gyrotropic and Anisotropic Media

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**Shun Lien Chuang**



## **Wave Propagation And Radiation In Gyrotropic And Anisotropic Media:**

**Wave Propagation and Radiation in Gyrotropic and Anisotropic Media** Abdullah Eroglu, 2010-09-02 As technology matures communication system operation regions shift from mic wave and millimeter ranges to sub millimeter ranges However device performance at very high frequencies suffers drastically from the material deficiencies As a result engineers and scientists are relentlessly in search for the new types of materials and composites which will meet the device performance requirements and not present any deficiencies due to material electrical and magnetic properties Anisotropic and gyrotropic materials are the class of the materials which are very important in the development high performance microwave devices and new types composite layered structures As a result it is a need to understand the wave propagation and radiation characteristics of these materials to be able to realize them in practice This book is intended to provide engineers and scientists the required skill set to design high frequency devices using anisotropic and gyrotropic materials by providing them the theoretical background which is blended with the real world engineering application examples It is the author's hope that this book will help to fill the gap in the area of applied electromagnetics for the design of microwave and millimeter wave devices using new types of materials Each chapter in the book is designed to give the theory first on the subject and solidify it with application examples given in the last chapter The application examples for the radiation problems are given at the end of Chap 5 and Chap 6 for anisotropic and gyrotropic materials respectively after the theory section

*Light, Plasmonics and Particles* M. Pinar Menguc, Mathieu Francoeur, 2023-05-08 *Light Plasmonics and Particles* focuses on the fundamental science and engineering applications of light scattering by particles aerosols and hydrosols and of localized plasmonics The book is intended to be a self contained and coherent resource volume for graduate students and professionals in the disciplines of materials science engineering and related disciplines of physics and chemistry In addition to chapters related to fundamental concepts it includes detailed discussion of different numerical models experimental systems and applications In order to develop new devices processes and applications we need to advance our understanding of light matter interactions For this purpose we need to have a firm grasp of electromagnetic wave phenomena and absorption and scattering of waves by different size and shape geometrical objects In addition understanding of tunneling of waves based on electron and lattice vibrations and coupling with the thermal fluctuations to enhance near field energy transfer mechanisms are required for the development of future energy harvesting devices and sensors Reviews the fundamental science available computational tools experimental systems and a wide range of applications of plasmonics Connects the cross cutting science of the physics of electromagnetic light scattering by particles plasmonics and phononic interactions at the electronic molecular and lattice levels of materials Reviews applications of light matter interactions of particles aerosols hydrosols and localized plasmonics

**Microwave Systems and Applications** Sotirios Goudos, 2017-01-11 Microwave systems are key components of every modern wireless communication system The main

objective of this book was to collect as many different state of the art studies as possible in order to cover in a single volume the main aspects of microwave systems and applications This book contains 17 chapters written by acknowledged experts researchers academics and microwave engineers providing comprehensive information and covering a wide range of topics on all aspects of microwave systems and applications This book is divided into four parts The first part is devoted to microwave components The second part deals with microwave ICs and innovative techniques for on chip antenna design The third part presents antenna design cases for microwave systems Finally the last part covers different applications of microwave systems

*Size-Dependent Continuum Mechanics Approaches* Esmaeel Ghavanloo, S. Ahmad Fazelzadeh, Francesco Marotti de Sciarra, 2021-04-02 This book offers a comprehensive and timely report of size dependent continuum mechanics approaches Written by scientists with worldwide reputation and established expertise it covers the most recent findings advanced theoretical developments and computational techniques as well as a range of applications in the field of nonlocal continuum mechanics Chapters are concerned with lattice based nonlocal models Eringen's nonlocal models gradient theories of elasticity strain and stress driven nonlocal models and peridynamic theory among other topics This book provides researchers and practitioners with extensive and specialized information on cutting edge theories and methods innovative solutions to current problems and a timely insight into the behavior of some advanced materials and structures It also offers a useful reference guide to senior undergraduate and graduate students in mechanical engineering materials science and applied physics

*Solid State Physics*, 2015-11-16 Solid State Physics provides the latest information on the branch of physics that is primarily devoted to the study of matter in its solid phase especially at the atomic level This prestigious serial presents timely and state of the art reviews pertaining to all aspects of solid state physics Contains contributions from leading authorities in the study of solid state physics especially at the atomic level Informs and updates on all the latest developments in the field presents timely and state of the art reviews pertaining to all aspects of solid state physics

**Physics of Photonic Devices** Shun Lien Chuang, 2012-11-07 The most up to date book available on the physics of photonic devices This new edition of Physics of Photonic Devices incorporates significant advancements in the field of photonics that have occurred since publication of the first edition Physics of Optoelectronic Devices New topics covered include a brief history of the invention of semiconductor lasers the Lorentz dipole method and metal plasmas matrix optics surface plasma waveguides optical ring resonators integrated electroabsorption modulator lasers and solar cells It also introduces exciting new fields of research such as surface plasmonics and micro ring resonators the theory of optical gain and absorption in quantum dots and quantum wires and their applications in semiconductor lasers and novel microcavity and photonic crystal lasers quantum cascade lasers and GaN blue green lasers within the context of advanced semiconductor lasers Physics of Photonic Devices Second Edition presents novel information that is not yet available in book form elsewhere Many problem sets have been updated the answers to which are available in an all new Solutions Manual for instructors

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