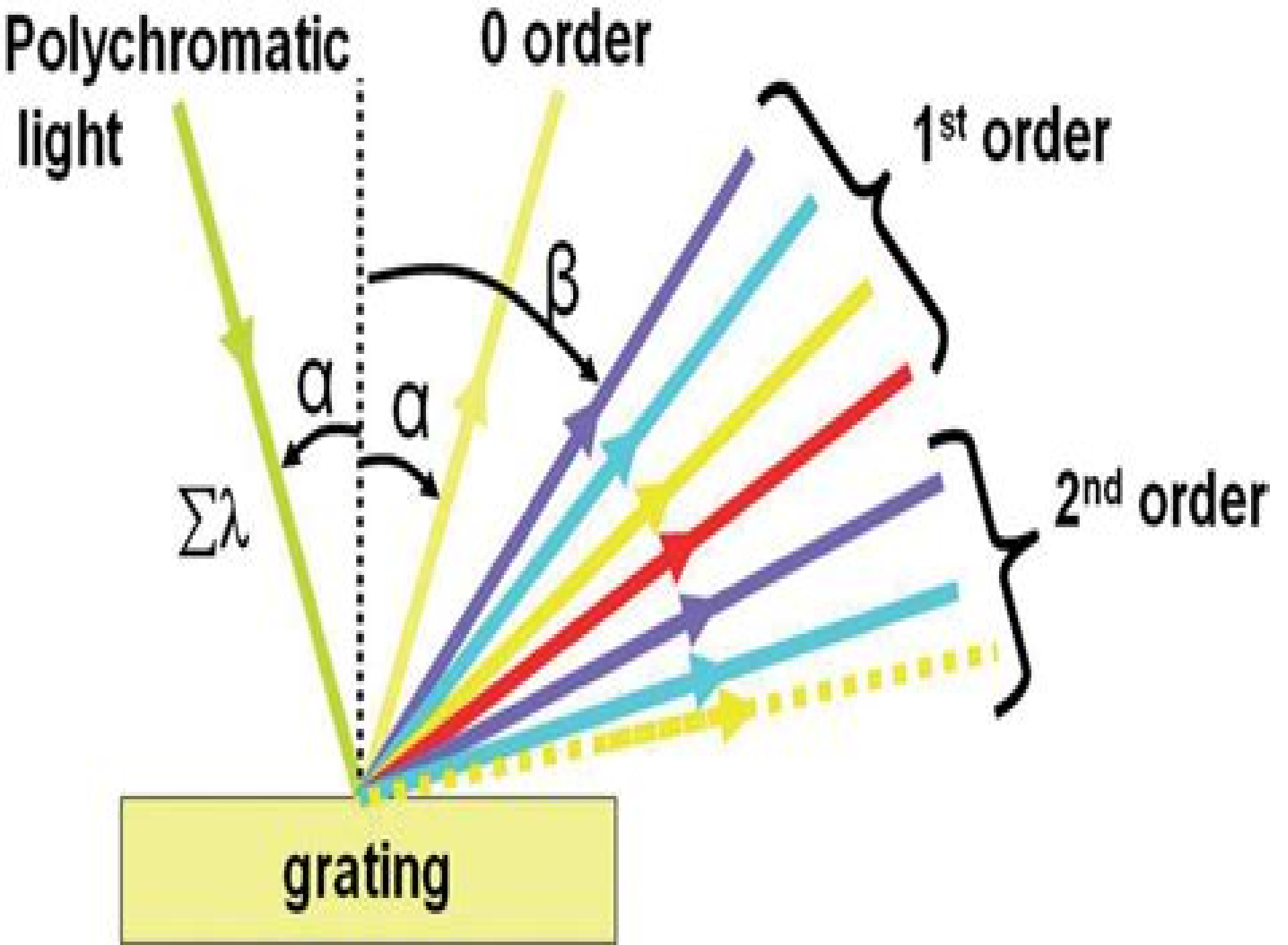




Scattering Theory For Diffraction Gratings

Jean Mawhin



Scattering Theory For Diffraction Gratings:

Scattering Theory for Diffraction Gratings Calvin H. Wilcox, 2012-12-06 The scattering of acoustic and electromagnetic waves by periodic surfaces plays a role in many areas of applied physics and engineering Optical diffraction gratings date from the nineteenth century and are still widely used by spectroscopists More recently diffraction gratings have been used as coupling devices for optical waveguides Trains of surface waves on the oceans are natural diffraction gratings which influence the scattering of electromagnetic waves and underwater sound Similarly the surface of a crystal acts as a diffraction grating for the scattering of atomic beams This list of natural and artificial diffraction gratings could easily be extended The purpose of this monograph is to develop from first principles a theory of the scattering of acoustic and electromagnetic waves by periodic surfaces In physical terms the scattering of both time harmonic and transient fields is analyzed The corresponding mathematical model leads to the study of boundary value problems for the Helmholtz and d'Alembert wave equations in plane domains bounded by periodic curves In the formalism adopted here these problems are intimately related to the spectral analysis of the Laplace operator acting in a Hilbert space of functions defined in the domain adjacent to the grating

Mathematical Problems in Image Processing Gilles Aubert, Pierre Kornprobst, 2006-11-30 Partial differential equations PDEs and variational methods were introduced into image processing about fifteen years ago Since then intensive research has been carried out The goals of this book are to present a variety of image analysis applications the precise mathematics involved and how to discretize them Thus this book is intended for two audiences The first is the mathematical community by showing the contribution of mathematics to this domain It is also the occasion to highlight some unsolved theoretical questions The second is the computer vision community by presenting a clear self contained and global overview of the mathematics involved in image processing problems This work will serve as a useful source of reference and inspiration for fellow researchers in Applied Mathematics and Computer Vision as well as being a basis for advanced courses within these fields During the four years since the publication of the first edition there has been substantial progress in the range of image processing applications covered by the PDE framework The main goals of the second edition are to update the first edition by giving a coherent account of some of the recent challenging applications and to update the existing material In addition this book provides the reader with the opportunity to make his own simulations with a minimal effort To this end programming tools are made available which will allow the reader to implement and test easily some classical approaches

Gratings: Theory and Numeric Applications , Modern Theory of Gratings Yuriy K. Sirenko, Staffan Ström, 2010-07-23 The advances in the theory of diffraction gratings and the applications of these results certainly determine the progress in several areas of applied science and engineering The polarization converters phase shifters and filters quantum and solid state oscillators open quasi optical dispersive resonators and power compressors slow wave structures and pattern forming systems accelerators and spectrometer that is still far from being a complete list of

devices exploiting the amazing ability of periodic structures to perform controlled frequency spatial and polarization selection of signals Diffraction gratings used to be and still are one of the most popular objects of analysis in electromagnetic theory The further development of the theory of diffraction gratings in spite of considerable achievements is still very important presently The requirements of applied optics and microwave engineering present the theory of diffraction gratings with many new problems which force us to search for new methods and tools for their resolution Just in such way there appeared recently new fields connected with the analysis synthesis and definition of equivalent parameters of artificial materials layers and coatings having periodic structure and possessing features which can be found in natural materials only in extraordinary or exceptional situations In this book the authors present results of the electromagnetic theory of diffraction gratings that may constitute the base of further development of this theory which can meet the challenges provided by the most recent requirements of fundamental and applied science The following issues will be considered in the book Authentic methods of analytical regularization that perfectly match the requirements of analysis of resonant scattering of electromagnetic waves by gratings Spectral theory of gratings providing a reliable foundation for the analysis of spatial frequency transformations of electromagnetic fields occurring in open periodic resonators and waveguides Parametric Fourier method and C method that are oriented towards the efficient numerical analysis of transformation properties of fields in the case of arbitrary profile periodic boundary between dielectric media and multilayered conformal arrays Rigorous methods for analysis of transient processes and time spatial transformations of electromagnetic waves in resonant situations based on development and incorporation in standard numerical routines of FDTD of so called explicit absorbing boundary conditions New approaches to the solution of homogenization problems the key problem arising in construction of metamaterials and meta surfaces New physical results about the resonance scattering of pulse and monochromatic waves by periodic structures including structures with chiral or left handed materials Methods and the results of the solutions of several actual applied problems of analysis and synthesis of pattern creating gratings power compressors resonance radiators of high capacity short radio pulses open electromagnetic structures for the systems of resonant quasi optics and absorbing coatings

Direct and Inverse Problems in Wave Propagation and Applications Ivan Graham, Ulrich Langer, Jens Melenk, Mourad Sini, 2013-10-14 This book is the third volume of three volume series recording the Radon Special Semester 2011 on Multiscale Simulation Analysis in Energy and the Environment taking place in Linz Austria October 3 7 2011 This book surveys recent developments in the analysis of wave propagation problems The topics covered include aspects of the forward problem and problems in inverse problems as well as applications in the earth sciences Wave propagation problems are ubiquitous in environmental applications such as seismic analysis acoustic and electromagnetic scattering The design of efficient numerical methods for the forward problem in which the scattered field is computed from known geometric configurations is very challenging due to the multiscale nature of the problems Even more challenging are inverse problems

where material parameters and configurations have to be determined from measurements in conjunction with the forward problem. This book contains review articles covering several state of the art numerical methods for both forward and inverse problems. This collection of survey articles focusses on the efficient computation of wave propagation and scattering, a core problem in numerical mathematics which is currently of great research interest and is central to many applications in energy and the environment. Two generic applications which resonate strongly with the central aims of the Radon Special Semester 2011 are forward wave propagation in heterogeneous media and seismic inversion for subsurface imaging. As an example of the first application, modelling of absorption and scattering of radiation by clouds, aerosol and precipitation is used as a tool for interpretation of e.g. solar infrared and radar measurements and as a component in larger weather climate prediction models in numerical weather forecasting. As an example of the second application, inverse problems in wave propagation in heterogeneous media arise in the problem of imaging the subsurface below land or marine deposits. The book records the achievements of Workshop 3: Wave Propagation and Scattering: Inverse Problems and Applications in Energy and the Environment. It brings together key numerical mathematicians whose interest is in the analysis and computation of wave propagation and scattering problems and in inverse problems together with practitioners from engineering and industry whose interest is in the applications of these core problems.

Progress in Computational Physics (PiCP): Volume 1

Matthias Ehrhardt, 2010. Progress in Computational Physics is a new e-book series devoted to recent research trends in computational physics. It contains chapters contributed by outstanding experts of modeling of physical problems. The series focuses on interdisciplinary computat

Maxwell's Equations in Periodic Structures Gang Bao, Peijun Li, 2021-11-22

This book addresses recent developments in mathematical analysis and computational methods for solving direct and inverse problems for Maxwell's equations in periodic structures. The fundamental importance of the fields is clear since they are related to technology with significant applications in optics and electromagnetics. The book provides both introductory materials and in-depth discussion to the areas in diffractive optics that offer rich and challenging mathematical problems. It is also intended to convey up to date results to students and researchers in applied and computational mathematics and engineering disciplines as well.

Critical Point Theory and Hamiltonian Systems Jean Mawhin, 2013-04-17 FACHGEB

The last decade has seen a tremendous development in critical point theory in infinite dimensional spaces and its application to nonlinear boundary value problems. In particular, striking results were obtained in the classical problem of periodic solutions of Hamiltonian systems. This book provides a systematic presentation of the most basic tools of critical point theory: minimization, convex functions and Fenchel transform, dual least action principle, Ekeland variational principle, minimax methods, Lusternik-Schirelmann theory for Z_2 and S^1 symmetries, Morse theory for possibly degenerate critical points and non-degenerate critical manifolds. Each technique is illustrated by applications to the discussion of the existence, multiplicity and bifurcation of the periodic solutions of Hamiltonian systems. Among the treated questions are the periodic solutions with

fixed period or fixed energy of autonomous systems the existence of subharmonics in the non autonomous case the asymptotically linear Hamiltonian systems free and forced superlinear problems Application of those results to the equations of mechanical pendulum to Josephson systems of solid state physics and to questions from celestial mechanics are given The aim of the book is to introduce a reader familiar to more classical techniques of ordinary differential equations to the powerful approach of modern critical point theory The style of the exposition has been adapted to this goal The new topological tools are introduced in a progressive but detailed way and immediately applied to differential equation problems The abstract tools can also be applied to partial differential equations and the reader will also find the basic references in this direction in the bibliography of more than 500 items which concludes the book

ERSCHEIN *Mathematical Problems from Combustion Theory* Jerrold Bebernes, David Eberly, 2013-12-01 This monograph evolved over the past five years It had its origin as a set of lecture notes prepared for the Ninth Summer School of Mathematical Physics held at Ravello Italy in 1984 and was further refined in seminars and lectures given primarily at the University of Colorado The material presented is the product of a single mathematical question raised by Dave Kassoy over ten years ago This question and its partial resolution led to a successful exciting almost unique interdisciplinary collaborative scientific effort The mathematical models described are often times deceptively simple in appearance But they exhibit a mathematical richness and beauty that belies that simplicity and affirms their physical significance The mathematical tools required to resolve the various problems raised are diverse and no systematic attempt is made to give the necessary mathematical background The unifying theme of the monograph is the set of models themselves This monograph would never have come to fruition without the enthusiasm and drive of Dave Eberly a former student now collaborator and coauthor and without several significant breakthroughs in our understanding of the phenomena of blowup or thermal runaway which certain models discussed possess A collaborator and former student who has made significant contributions throughout is Alberto Bressan There are many other collaborators William Troy Watson Fulks Andrew Lacey Klaus Schmitt and former students Paul Talaga and Richard Ely who must be acknowledged and thanked

Bifurcation Theory Hansjörg Kielhöfer, 2006-04-10 In the past three decades bifurcation theory has matured into a well established and vibrant branch of mathematics This book gives a unified presentation in an abstract setting of the main theorems in bifurcation theory as well as more recent and lesser known results It covers both the local and global theory of one parameter bifurcations for operators acting in infinite dimensional Banach spaces and shows how to apply the theory to problems involving partial differential equations In addition to existence qualitative properties such as stability and nodal structure of bifurcating solutions are treated in depth This volume will serve as an important reference for mathematicians physicists and theoretically inclined engineers working in bifurcation theory and its applications to partial differential equations

The book delves into Scattering Theory For Diffraction Gratings. Scattering Theory For Diffraction Gratings is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Scattering Theory For Diffraction Gratings, encompassing both the fundamentals and more intricate discussions.

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