

SPECTRAL THEORY OF GUIDED WAVES

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A S Silbergleit and Yu I Kopilevich

Spectral Theory Of Guided Waves

David F. Parker, Gerard A. Maugin



Spectral Theory Of Guided Waves:

Spectral Theory of Guided Waves A.S Silbergleit,Y Kopilevich,2021-08-02 Spectral Theory of Guided Waves represents a distillation of the authors and others efforts over several years to rigorously discuss many of the properties of guided waves The bulk of the book deals with the properties of eigenwaves of regular waveguiding systems and relates these to a variety of physical situations and applications to illustrate their generality The book also includes considerable discussion of the basic properties of normal waves with quadratic operator pencils Unique in its coverage of these subjects the book will be of interest to engineers applied mathematicians and physicists with a working knowledge of functional analysis and spectral theory

Spectral Theory of Operator Pencils, Hermite-Biehler Functions, and their Applications Manfred Möller,Vyacheslav Pivovarchik,2015-06-11 The theoretical part of this monograph examines the distribution of the spectrum of operator polynomials focusing on quadratic operator polynomials with discrete spectra The second part is devoted to applications Standard spectral problems in Hilbert spaces are of the form AI for an operator A and self adjoint operators are of particular interest and importance both theoretically and in terms of applications A characteristic feature of self adjoint operators is that their spectra are real and many spectral problems in theoretical physics and engineering can be described by using them However a large class of problems in particular vibration problems with boundary conditions depending on the spectral parameter are represented by operator polynomials that are quadratic in the eigenvalue parameter and whose coefficients are self adjoint operators The spectra of such operator polynomials are in general no more real but still exhibit certain patterns The distribution of these spectra is the main focus of the present volume For some classes of quadratic operator polynomials inverse problems are also considered The connection between the spectra of such quadratic operator polynomials and generalized Hermite Biehler functions is discussed in detail Many applications are thoroughly investigated such as the Regge problem and damped vibrations of smooth strings Stieltjes strings beams star graphs of strings and quantum graphs Some chapters summarize advanced background material which is supplemented with detailed proofs With regard to the reader s background knowledge only the basic properties of operators in Hilbert spaces and well known results from complex analysis are assumed

Spectral Theory and Excitation of Open Structures V. P. Shestopalov,1996 Open resonators open waveguides and open diffraction gratings are used extensively in modern millimetre and submillimetre technology spectroscopy and radio engineering In this book the physical processes in these open electromagnetic structures are analysed using a specially constructed spectral theory

Spectral Theory and Differential Equations E. Khruslov,L. Pastur,D. Shepelsky,2014-09-26 This volume is dedicated to V A Marchenko on the occasion of his 90th birthday It contains refereed original papers and survey articles written by his colleagues and former students of international stature and focuses on the areas to which he made important contributions spectral theory of differential and difference operators and related topics of mathematical physics including inverse problems of spectral theory homogenization theory and the theory of

integrable systems The papers in the volume provide a comprehensive account of many of the most significant recent developments in that broad spectrum of areas

Optical Waveguide Theory Yury Shestopalov, Yury Smirnov, Eugene Smolkin, 2022-03-26 This book addresses the most advanced to date mathematical approach and numerical methods in electromagnetic field theory and wave propagation It presents the application of developed methods and techniques to the analysis of waves in various guiding structures shielded and open metal dielectric waveguides of arbitrary cross section planar and circular waveguides filled with inhomogeneous dielectrics metamaterials chiral media anisotropic media and layered media with absorption It also looks into spectral properties of wave propagation for the waveguide families being considered and the relevant mathematical techniques such as spectral theory of non self adjoint operator valued functions are described including rigorous proofs of the existence of various types of waves Further numerical methods constructed on the basis of the presented mathematical approach and the results of numerical modeling for various structures are also described in depth The book is beneficial to a broad spectrum of readers ranging from pure and applied mathematicians in electromagnetic field theory to researchers and engineers who are familiar with mathematics Further it is also useful as a supplementary text for upper level undergraduate students interested in learning more advanced topics of mathematical methods in electromagnetics

Field Theory of Guided Waves Robert E. Collin, 1990-12-15 Co published with Oxford University Press Long considered the most comprehensive account of electromagnetic theory and analytical methods for solving waveguide and cavity problems this new Second Edition has been completely revised and thoroughly updated approximately 40% new material Packed with examples and applications FIELD THEORY OF GUIDED WAVES provides solutions to a large number of practical structures of current interest The book includes an exceptionally complete discussion of scalar and Dyadic Green functions Both a valuable review and source of basic information on applied mathematical topics and a hands on source for solution methods and techniques this book belongs on the desk of all engineers working in microwave and antenna systems Sponsored by IEEE Antennas and Propagation Society

Recent Advances in Matrix and Operator Theory Joseph A. Ball, Yuli Eidelman, J. William Helton, Vadim Olshevsky, James Rovnyak, 2007-12-22 This volume comprises the proceedings of the International Workshop on Operator Theory and Its Applications held at the University of Connecticut in July 2005

Theory of Waveguides and Transmission Lines Edward F. Kuester, 2020-09-19 This book covers the principles of operation of electromagnetic waveguides and transmission lines The approach is divided between mathematical descriptions of basic behaviors and treatment of specific types of waveguide structures Classical distributed network transmission lines their basic properties their connection to lumped element networks and the distortion of pulses are discussed followed by a full field analysis of waveguide modes Modes of specific kinds of waveguides traditional hollow metallic waveguides dielectric including optical waveguides etc are discussed Problems of excitation and scattering of waveguide modes are addressed followed by discussion of real systems and performance

Recent Developments in

Surface Acoustic Waves David F. Parker, Gerard A. Maugin, 2012-12-06 The topic of surface waves lies at the interface between a number of disciplines physics theoretical and applied mechanics electroacoustics applied mathematics surface science and seismology This volume based on papers delivered at European Mechanics Colloquium 226 reflects this diversity in approach and background while showing strong links between phenomena arising from different fields The emphasis is on recent developments such as nonlinear and other nonclassical effects which have great importance for both pure science and for applications such as signal processing nondestructive evaluation and seismic studies In recent years there has been considerable progress in the mathematical treatment of nonlinear effects of viscoelastic and of more novel constitutive effects which modify the predictions of linear elastic and piezoelectric theory for surface acoustic wave SAW propagation A number of these themes serve to group the contents of this volume Part I contains recent advances in the rigorous mathematical treatment of nonlinearity together with a paper giving experimental results showing the need for further theoretical development Part II deals with anisotropic elasticity showing that even the linear theory presents many possible behaviours which are still not fully categorized Floquet Theory for Partial Differential Equations P.A.

Kuchment, 2012-12-06 Linear differential equations with periodic coefficients constitute a well developed part of the theory of ordinary differential equations 17 94 156 177 178 272 389 They arise in many physical and technical applications 177 178 272 A new wave of interest in this subject has been stimulated during the last two decades by the development of the inverse scattering method for integration of nonlinear differential equations This has led to significant progress in this traditional area 27 71 72 111 119 250 276 277 284 286 287 312 313 337 349 354 392 393 403 404 At the same time many theoretical and applied problems lead to periodic partial differential equations We can mention for instance quantum mechanics 14 18 40 54 60 91 92 107 123 157 160 192 193 204 315 367 412 414 415 417 hydrodynamics 179 180 elasticity theory 395 the theory of guided waves 87 89 208 300 homogenization theory 29 41 348 direct and inverse scattering 175 206 216 314 388 406 408 parametric resonance theory 122 178 and spectral theory and spectral geometry 103 105 381 382 389 There is a significant distinction between the cases of ordinary and partial differential periodic equations The main tool of the theory of periodic ordinary differential equations is the so called Floquet theory 17 94 120 156 177 267 272 389 Its central result is the following theorem sometimes called Floquet Lyapunov theorem 120 267

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