

# CONTEMPORARY MATHEMATICS

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## Inverse Problems and Spectral Theory

Hiroshi Isozaki  
Editor



American Mathematical Society

# Inverse Problems And Spectral Theory

**M. Sh. Birman**



## **Inverse Problems And Spectral Theory:**

**An Introduction to Inverse Scattering and Inverse Spectral Problems** Khosrow Chadan, David Colton, Lassi P?iv?rinta, William Rundell, 1997-01-01 Here is a clearly written introduction to three central areas of inverse problems inverse problems in electromagnetic scattering theory inverse spectral theory and inverse problems in quantum scattering theory Inverse problems one of the most attractive parts of applied mathematics attempt to obtain information about structures by nondestructive measurements Based on a series of lectures presented by three of the authors all experts in the field the book provides a quick and easy way for readers to become familiar with the area through a survey of recent developments in inverse spectral and inverse scattering problems

**Inverse Problems and Spectral Theory** Hiroshi Isozaki, 2004 This volume grew out of a workshop on spectral theory of differential operators and inverse problems held at the Research Institute for Mathematical Sciences Kyoto University The gathering of nearly 100 participants at the conference suggests the increasing interest in this field of research The focus of the book is on spectral theory for differential operators and related inverse problems It includes selected topics from the following areas electromagnetism elasticity the Schrodinger equation differential geometry and numerical analysis The material is suitable for graduate students and researchers interested in inverse problems and their applications

Method of Spectral Mappings in the Inverse Problem Theory V. A. Yurko, 2002 Inverse problems of spectral analysis consist in recovering operators from their spectral characteristics Such problems often appear in mathematics mechanics physics electronics geophysics meteorology and other branches of natural science This monograph is devoted to inverse problems of spectral analysis for ordinary differential equations Its aim is to present the main results on inverse spectral problems using the so called method of spectral mappings which is one of the main tools in inverse spectral theory The book consists of three chapters In Chapter 1 the method of spectral mappings is presented in the simplest version for the Sturm Liouville operator In Chapter 2 the inverse problem of recovering higher order differential operators of the form on the half line and on a finite interval is considered In Chapter 3 inverse spectral problems for differential operators with nonlinear dependence on the spectral parameter are studied

**Inverse Spectral and Scattering Theory** Hiroshi Isozaki, 2020-09-26 The aim of this book is to provide basic knowledge of the inverse problems arising in various areas in mathematics physics engineering and medical science These practical problems boil down to the mathematical question in which one tries to recover the operator coefficients or the domain manifolds from spectral data The characteristic properties of the operators in question are often reduced to those of Schr dinger operators We start from the 1 dimensional theory to observe the main features of inverse spectral problems and then proceed to multi dimensions The first milestone is the Borg Levinson theorem in the inverse Dirichlet problem in a bounded domain elucidating basic motivation of the inverse problem as well as the difference between 1 dimension and multi dimension The main theme is the inverse scattering in which the spectral data is Heisenberg s S matrix defined through the observation of

the asymptotic behavior at infinity of solutions Significant progress has been made in the past 30 years by using the Faddeev Green function or the complex geometrical optics solution by Sylvester and Uhlmann which made it possible to reconstruct the potential from the S matrix of one fixed energy One can also prove the equivalence of the knowledge of S matrix and that of the Dirichlet to Neumann map for boundary value problems in bounded domains We apply this idea also to the Dirac equation the Maxwell equation and discrete Schrödinger operators on perturbed lattices Our final topic is the boundary control method introduced by Belishev and Kurylev which is for the moment the only systematic method for the reconstruction of the Riemannian metric from the boundary observation which we apply to the inverse scattering on non compact manifolds We stress that this book focuses on the lucid exposition of these problems and mathematical backgrounds by explaining the basic knowledge of functional analysis and spectral theory omitting the technical details in order to make the book accessible to graduate students as an introduction to partial differential equations PDEs and functional analysis

**Method of Spectral Mappings in the Inverse Problem Theory** Vacheslav A. Yurko, 2013-10-10 Inverse problems of spectral analysis consist in recovering operators from their spectral characteristics Such problems often appear in mathematics mechanics physics electronics geophysics meteorology and other branches of natural science This monograph is devoted to inverse problems of spectral analysis for ordinary differential equations Its aim is to present the main results on inverse spectral problems using the so called method of spectral mappings which is one of the main tools in inverse spectral theory The book consists of three chapters In Chapter 1 the method of spectral mappings is presented in the simplest version for the Sturm Liouville operator In Chapter 2 the inverse problem of recovering higher order differential operators of the form on the half line and on a finite interval is considered In Chapter 3 inverse spectral problems for differential operators with nonlinear dependence on the spectral parameter are studied *Introduction to spectral theory and inverse problem on asymptotically hyperbolic manifolds* Hiroshi Isozaki, Yaroslav Kurylev, 2014-06 This manuscript is devoted to a rigorous and detailed exposition of the spectral theory and associated forward and inverse scattering problems for the Laplace Beltrami operators on asymptotically hyperbolic manifolds Based upon the classical stationary scattering theory in  $n$  the key point of the approach is the generalized Fourier transform which serves as the basic tool to introduce and analyse the time dependent wave operators and the S matrix The crucial role is played by the characterization of the space of the scattering solutions for the Helmholtz equations utilizing a properly defined Besov type space After developing the scattering theory we describe for some cases the inverse scattering on the asymptotically hyperbolic manifolds by adopting for the considered case the boundary control method for inverse problems The manuscript is aimed at graduate students and young mathematicians interested in spectral and scattering theories analysis on hyperbolic manifolds and theory of inverse problems We try to make it self consistent and to a large extent not dependent on the existing treatises on these topics To our best knowledge it is the first comprehensive description of these theories in the context of the asymptotically hyperbolic manifolds Published by

Mathematical Society of Japan and distributed by World Scientific Publishing Co for all markets      Direct and Inverse Finite-Dimensional Spectral Problems on Graphs Manfred Möller, Vyacheslav Pivovarchik, 2020-10-30 Considering that the motion of strings with finitely many masses on them is described by difference equations this book presents the spectral theory of such problems on finite graphs of strings The direct problem of finding the eigenvalues as well as the inverse problem of finding strings with a prescribed spectrum are considered This monograph gives a comprehensive and self contained account on the subject thereby also generalizing known results The interplay between the representation of rational functions and their zeros and poles is at the center of the methods used The book also unravels connections between finite dimensional and infinite dimensional spectral problems on graphs and between self adjoint and non self adjoint finite dimensional problems This book is addressed to researchers in spectral theory of differential and difference equations as well as physicists and engineers who may apply the presented results and methods to their research      Inverse Problems in Quantum Scattering Theory Khosrow Chadan, Pierre C. Sabatier, 2012-12-06 The normal business of physicists may be schematically thought of as predicting the motions of particles on the basis of known forces or the propagation of radiation on the basis of a known constitution of matter The inverse problem is to conclude what the forces or constitutions are on the basis of the observed motion A large part of our sensory contact with the world around us depends on an intuitive solution of such an inverse problem We infer the shape size and surface texture of external objects from their scattering and absorption of light as detected by our eyes When we use scattering experiments to learn the size or shape of particles or the forces they exert upon each other the nature of the problem is similar if more refined The kinematics the equations of motion are usually assumed to be known It is the forces that are sought and how they vary from point to point As with so many other physical ideas the first one we know of to have touched upon the kind of inverse problem discussed in this book was Lord Rayleigh 1877 In the course of describing the vibrations of strings of variable density he briefly discusses the possibility of inferring the density distribution from the frequencies of vibration This passage may be regarded as a precursor of the mathematical study of the inverse spectral problem some seventy years later      *Inverse Spectral Problems for Linear Differential Operators and Their Applications* V A Yurko, 2000-01-18 Aims to construct the inverse problem theory for ordinary non self adjoint differential operators of arbitrary order on the half line and on a finite interval The book consists of two parts in the first part the author presents a general inverse problem of recovering differential equations with integrable coefficients when the behaviour of the spectrum is arbitrary The Weyl matrix is introduced and studied as a spectral characteristic The second part of the book is devoted to solving incomplete inverse problems when a priori information about the operator or its spectrum is available and these problems are significant in applications      **Inverse Spectral Theory** Jürgen Pöschel, Eugene Trubowitz, 1987      **Inverse Problems in Quantum Scattering Theory** K. Chadan, P. C. Sabatier, 2013-04-18      **Partial Differential Equations and Spectral Theory** Michael Demuth, Bert-Wolfgang

Schulze,2012-12-06 The intention of the international conference PDE2000 was to bring together specialists from different areas of modern analysis mathematical physics and geometry to discuss not only the recent progress in their own fields but also the interaction between these fields The special topics of the conference were spectral and scattering theory semiclassical and asymptotic analysis pseudodifferential operators and their relation to geometry as well as partial differential operators and their connection to stochastic analysis and to the theory of semigroups The scientific advisory board of the conference in Clausthal consisted of M Ben Artzi Jerusalem Chen Hua Peking M Demuth Clausthal T Ichinose Kanazawa L Rodino Turin B W Schulze Potsdam and J Sj strand Paris The book is aimed at researchers in mathematics and mathematical physics with interests in partial differential equations and all its related fields Inverse Sturm-Liouville

Problems B. M. Levitan,2018-07-12 No detailed description available for Inverse Sturm Liouville Problems **Spectral**

**Theory and Partial Differential Equations** James V Ralston,Grigoriĭ Il'ich Eskin,Leonid Friedlander,John B. Garnett,2015 Contains the proceedings of the Conference on Spectral Theory and Partial Differential Equations held in honor of James Ralston s 70th Birthday Papers cover important topics in spectral theory and partial differential equations such as inverse problems both analytical and algebraic minimal partitions and Pleijel s Theorem spectral theory for a model in Quantum Field Theory and beams on Zoll manifolds **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 *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 Mathematical Physics: A Festschrift in Honor of Barry Simon's 60th Birthday Fritz Gesztesy, 2007 This Festschrift had its origins in a conference called SimonFest held at Caltech March 27-31 2006 to honor Barry Simon's 60th birthday It is not a proceedings volume in the usual sense since the emphasis of the majority of the contributions is on reviews of the state of the art of certain fields with particular focus on recent developments and open problems The bulk of the articles in this Festschrift are of this survey form and a few review Simon's contributions to a particular area Part 1 contains surveys in the areas of Quantum Field Theory Statistical Mechanics Nonrelativistic Two Body and N Body Quantum Systems Resonances Quantum Mechanics with Electric and Magnetic Fields and the Semiclassical Limit Part 2 contains surveys in the areas of Random and Ergodic Schrodinger Operators Singular Continuous Spectrum Orthogonal Polynomials and Inverse Spectral Theory In several cases this collection of surveys portrays both the history of a subject and its current state of the art A substantial part of the contributions to this Festschrift are survey articles on the state of the art of certain areas with special emphasis on open problems This will benefit graduate students as well as researchers who want to get a quick yet comprehensive introduction into an area covered in this volume

Spectral Theory & Computational Methods of Sturm-Liouville Problems Don Hinton, 1997-05-06 Presenting the proceedings of the conference on Sturm Liouville problems held in conjunction with the 26th Barrett Memorial Lecture Series at the University of Tennessee Knoxville this text covers both qualitative and computational theory of Sturm Liouville problems It surveys questions in the field as well as describing applications and concepts

*Selected Papers on Analysis and Differential Equations* American Mathematical Society, 2010 Volume includes English translation of ten expository articles published in the Japanese journal Sugaku

*Spectral Theory and Wave Processes* M. Sh. Birman, 2012-12-06

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