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Reconstructive Integral Geometry



Springer-Verlag, 1991

Reconstructive Integral Geometry

Peter M. Gruber



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Reconstructive Integral Geometry Victor Palamodov, 2004-08-20 This book covers facts and methods for the reconstruction of a function in a real affine or projective space from data of integrals particularly over lines planes and spheres Recent results stress explicit analytic methods Coverage includes the relations between algebraic integral geometry and partial differential equations The first half of the book includes the ray the spherical mean transforms in the plane or in 3 space and inversion from incomplete data **Reconstructive Integral Geometry** Victor Palamodov, 2012-12-06 One hundred years ago 1904 Hermann Minkowski 58 posed a problem to re 2 construct an even function I on the sphere S^2 from knowledge of the integrals $\int_{C \cap S^2} f$ over big circles C Paul Funk found an explicit reconstruction formula for I from data of big circle integrals Johann Radon studied a similar problem for the Euclidean plane and space The interest in reconstruction problems like Minkowski Funk's and Radon's has grown tremendously in the last four decades stimulated by the spectrum of new modalities of image reconstruction These are X ray MRI gamma and positron radiography ultrasound seismic tomography electron microscopy synthetic radar imaging and others The physical principles of these methods are very different however their mathematical models and solution methods have very much in common The umbrella name reconstructive integral geometry is used to specify the variety of these problems and methods The objective of this book is to present in a uniform way the scope of well known and recent results and methods in the reconstructive integral geometry We do not touch here the problems arising in adaptation of analytic methods to numerical reconstruction algorithms We refer to the books 61 62 which are focused on these problems Various aspects of interplay of integral geometry and differential equations are discussed in Chapters 7 and 8 The results presented here are partially new **Complex-Analytic Methods in Reconstructive Integral Geometry** Nicholas McMurray Hoell, 2011 This serves as a prelude to a new result for an explicit formula for inverting the attenuated ray transform in such settings modulo a Fredholm error We close with an appendix on containing all useful geometrical jargon used throughout **Geometric Analysis and Integral Geometry** Eric Todd Quinto, Fulton Gonzalez, Jens Gerlach Christensen, 2013 This volume contains the proceedings of the AMS Special Session on Radon Transforms and Geometric Analysis in honour of Sigurdur Helgason's 85th Birthday held from January 4 7 2012 in Boston MA and the Tufts University Workshop on Geometric Analysis on Euclidean and Homogeneous Spaces held from January 8 9 2012 in Medford MA This volume provides an historical overview of several decades in integral geometry and geometric analysis as well as recent advances in these fields and closely related areas It contains several articles focusing on the mathematical work of Sigurdur Helgason including an overview of his research by Gestur Olafsson and Robert Stanton The first article in the volume contains Helgason's own reminiscences about the development of the group theoretical aspects of the Radon transform and its relation to geometric analysis Other contributions cover Radon transforms harmonic analysis Penrose transforms representation theory wavelets partial differential operators on groups and inverse problems in

tomography and cloaking that are related to integral geometry Many articles contain both an overview of their respective fields as well as new research results The volume will therefore appeal to experienced researchers as well as a younger generation of mathematicians With a good blend of pure and applied topics the volume will be a valuable source for interdisciplinary research

Reconstruction from Integral Data Victor Palamodov, 2016-04-27 Reconstruction of a function from data of integrals is used for problems arising in diagnostics including x ray positron radiography ultrasound scattering sonar seismic impedance wave tomography crystallography photo thermo acoustics photoelastics and strain tomography Reconstruction from Integral Data presents both long standing and r

The Mathematical Legacy of Leon Ehrenpreis Irene Sabadini, Daniele C. Struppa, 2012-04-23 Leon Ehrenpreis has been one of the leading mathematicians in the twentieth century His contributions to the theory of partial differential equations were part of the golden era of PDEs and led him to what is maybe his most important contribution the Fundamental Principle which he announced in 1960 and fully demonstrated in 1970 His most recent work on the other hand focused on a novel and far reaching understanding of the Radon transform and offered new insights in integral geometry Leon Ehrenpreis died in 2010 and this volume collects writings in his honor by a cadre of distinguished mathematicians many of which were his collaborators

Radon Transforms, Geometry, and Wavelets Gestur Ólafsson, 2008 This volume is based on two special sessions held at the AMS Annual Meeting in New Orleans in January 2007 and a satellite workshop held in Baton Rouge on January 4 5 2007 It consists of invited expositions that together represent a broad spectrum of fields stressing surprising interactions and connections between areas that are normally thought of as disparate The main topics are geometry and integral transforms On the one side are harmonic analysis symmetric spaces representation theory the groups include continuous and discrete finite and infinite compact and non compact operator theory PDE and mathematical probability Moving in the applied direction we encounter wavelets fractals and engineering topics such as frames and signal and image processing The subjects covered in this book form a unified whole and they stand at the crossroads of pure and applied mathematics The articles cover a broad range in harmonic analysis with the main themes related to integral geometry the Radon transform wavelets and frame theory These themes can loosely be grouped together as follows Frame Theory and Applications Harmonic Analysis and Function Spaces Harmonic Analysis and Number Theory Integral Geometry and Radon Transforms Multiresolution Analysis Wavelets and Applications

Operator Algebras, Toeplitz Operators and Related Topics Wolfram Bauer, Roland Duduchava, Sergei Grudsky, Marinus A. Kaashoek, 2020-09-01 This book features a collection of up to date research papers that study various aspects of general operator algebra theory and concrete classes of operators including a range of applications Most of the papers included were presented at the International Workshop on Operator Algebras Toeplitz Operators and Related Topics in Boca del Rio Veracruz Mexico in November 2018 The conference which was attended by more than 30 leading experts in the field was held in celebration of Nikolai Vasilevski s 70th birthday and the contributions

are dedicated to him *Photoacoustic Imaging and Spectroscopy* Lihong V. Wang, 2017-12-19 Photoacoustics promises to revolutionize medical imaging and may well make as dramatic a contribution to modern medicine as the discovery of the x ray itself once did Combining electromagnetic and ultrasonic waves synergistically photoacoustics can provide deep speckle free imaging with high electromagnetic contrast at high ultrasonic resolution and without any health risk While photoacoustic imaging is probably the fastest growing biomedical imaging technology this book is the first comprehensive volume in this emerging field covering both the physics and the remarkable noninvasive applications that are changing diagnostic medicine Bringing together the leading pioneers in this field to write about their own work *Photoacoustic Imaging and Spectroscopy* is the first to provide a full account of the latest research and developing applications in the area of biomedical photoacoustics Photoacoustics can provide functional sensing of physiological parameters such as the oxygen saturation of hemoglobin It can also provide high contrast functional imaging of angiogenesis and hypermetabolism in tumors in vivo Discussing these remarkable noninvasive applications and so much more this reference is essential reading for all researchers in medical imaging and those clinicians working at the cutting edge of modern biotechnology to develop diagnostic techniques that can save many lives and just as importantly do no harm *Convex and Discrete Geometry* Peter M. Gruber, 2007-05-17 *Convex and Discrete Geometry* is an area of mathematics situated between analysis geometry and discrete mathematics with numerous relations to other areas The book gives an overview of major results methods and ideas of convex and discrete geometry and its applications Besides being a graduate level introduction to the field it is a practical source of information and orientation for convex geometers It should also be of use to people working in other areas of mathematics and in the applied fields **Introduction to Radon Transforms** Boris Rubin, 2015-11-12 A comprehensive introduction to basic operators of integral geometry and the relevant harmonic analysis for students and researchers *Complex Analysis and Dynamical Systems VI* Matania Ben-Artzi, Greg Galloway, Lavi Karp, Dmitry Khavinson, Simeon Reich, Gilbert Weinstein, Lawrence Zalcman, 2015-12-03 This volume contains the proceedings of the Sixth International Conference on Complex Analysis and Dynamical Systems held from May 19 24 2013 in Nahariya Israel in honor of David Shoikhet's sixtieth birthday The papers in this volume range over a wide variety of topics in Partial Differential Equations Differential Geometry and the Radon Transform Taken together the articles collected here provide the reader with a panorama of activity in partial differential equations and general relativity drawn by a number of leading figures in the field They testify to the continued vitality of the interplay between classical and modern analysis The companion volume *Contemporary Mathematics Volume 667* is devoted to complex analysis quasiconformal mappings and complex dynamics This book is co published with Bar Ilan University Ramat Gan Israel **Integral Geometry and Radon Transforms** Sigurdur Helgason, 2010-10-27 In this text integral geometry deals with Radon's problem of representing a function on a manifold in terms of its integrals over certain submanifolds hence the term the Radon transform Examples and far reaching

generalizations lead to fundamental problems such as i injectivity ii inversion formulas iii support questions iv applications e g to tomography partial differential equations and group representations For the case of the plane the inversion theorem and the support theorem have had major applications in medicine through tomography and CAT scanning While containing some recent research the book is aimed at beginning graduate students for classroom use or self study A number of exercises point to further results with documentation From the reviews Integral Geometry is a fascinating area where numerous branches of mathematics meet together the contents of the book is concentrated around the duality and double vibration which is realized through the masterful treatment of a variety of examples the book is written by an expert who has made fundamental contributions to the area Boris Rubin Louisiana State University

Generalized Radon Transforms And Imaging By Scattered Particles: Broken Rays, Cones, And Stars In Tomography Gaik Ambartsoumian, 2023-03-14 A generalized Radon transform GRT maps a function to its weighted integrals along a family of curves or surfaces Such operators appear in mathematical models of various imaging modalities The GRTs integrating along smooth curves and surfaces lines planes circles spheres amongst others have been studied at great lengths for decades but relatively little attention has been paid to transforms integrating along non smooth trajectories Recently an interesting new class of GRTs emerged at the forefront of research in integral geometry The two common features of these transforms are the presence of a vertex in their paths of integration broken rays cones and stars and their relation to imaging techniques based on physics of scattered particles Compton camera imaging single scattering tomography etc This book covers the relevant imaging modalities their mathematical models and the related GRTs The discussion of the latter comprises a thorough exploration of their known mathematical properties including injectivity inversion range description and microlocal analysis The mathematical background required for reading most of the book is at the level of an advanced undergraduate student which should make its content attractive for a large audience of specialists interested in imaging Mathematicians may appreciate certain parts of the theory that are particularly elegant with connections to functional analysis PDEs and algebraic geometry

Theory and Applications of Models of Computation Manindra Agrawal, Barry S. Cooper, Angsheng Li, 2012-05-04 This book constitutes the refereed proceedings of the 9th International Conference on Theory and Applications of Models of Computation TAMC 2012 held in Beijing China in May 2012 The conference was combined with the Turing Lectures 2012 dedicated to celebrating Alan Turing s unique impact on mathematics computing computer science informatics morphogenesis philosophy and the wider scientific world Eight Turing Lectures were given at the TAMC 2012 The 40 revised full papers presented together with invited talks were carefully reviewed and selected from 86 submissions The papers address 4 special sessions at TAMC 2012 which were algorithms and information in networks complexity and cryptography models of computing and networking programming and verification

The Radon Transform Ronny Ramlau, Otmar Scherzer, 2019-06-17 In 1917 Johann Radon published his fundamental work where he introduced what is now called the

Radon transform Including important contributions by several experts this book reports on ground breaking developments related to the Radon transform throughout these years and also discusses novel mathematical research topics and applications for the next century **Integral Geometry and Inverse Problems for Kinetic Equations** Anvar Kh.

Amirov,2014-07-24 In this monograph a method for proving the solvability of integral geometry problems and inverse problems for kinetic equations is presented The application of this method has led to interesting problems of the Dirichlet type for third order differential equations the solvability of which appears to depend on the geometry of the domain for which the problem is stated Another considered subject is the problem of integral geometry on paraboloids in particular the uniqueness of solutions to the Goursat problem for a differential inequality which implies new theorems on the uniqueness of solutions to this problem for a class of quasilinear hyperbolic equations A class of multidimensional inverse problems associated with problems of integral geometry and the inverse problem for the quantum kinetic equations are also included

The Radon Transform, Inverse Problems, and Tomography Gestur Ólafsson, Eric Todd Quinto, 2006 Since their emergence in 1917 tomography and inverse problems remain active and important fields that combine pure and applied mathematics and provide strong interplay between diverse mathematical problems and applications The applied side is best known for medical and scientific use in particular medical imaging radiotherapy and industrial non destructive testing Doctors use tomography to see the internal structure of the body or to find functional information such as metabolic processes noninvasively Scientists discover defects in objects the topography of the ocean floor and geological information using X rays geophysical measurements sonar or other data This volume based on the lectures in the Short Course The Radon Transform and Applications to Inverse Problems at the American Mathematical Society meeting in Atlanta GA January 3 4 2005 brings together articles on mathematical aspects of tomography and related inverse problems The articles cover introductory material theoretical problems and practical issues in 3 D tomography impedance imaging local tomography wavelet methods regularization and approximate inverse sampling and emission tomography All contributions are written for a general audience and the authors have included references for further reading *The Radon Transform and Medical Imaging* Peter Kuchment, 2014-01-01 This book surveys the main mathematical ideas and techniques behind some well established imaging modalities such as X ray CT and emission tomography as well as a variety of newly developing coupled physics or hybrid techniques including thermoacoustic tomography The Radon Transform and Medical Imaging emphasizes mathematical techniques and ideas arising across the spectrum of medical imaging modalities and explains important concepts concerning inversion stability incomplete data effects the role of interior information and other issues critical to all medical imaging methods For nonexperts the author provides appendices that cover background information on notation Fourier analysis geometric rays and linear operators The vast bibliography with over 825 entries directs readers to a wide array of additional information sources on medical imaging for further study Analele Universității Din Craiova ,2004

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