

Victor Palamodov

Reconstructive Integral Geometry



Springer-Verlag, 1991

Reconstructive Integral Geometry

K Morrison



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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

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
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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

Mathematical Methods in Image Reconstruction Frank Natterer, Frank Wuebbeling, 2001-01-01 This book describes the state of the art of the mathematical theory and numerical analysis of imaging Some of the applications covered in the book include computerized tomography magnetic resonance imaging emission tomography electron microscopy ultrasound transmission tomography industrial tomography seismic tomography impedance tomography and NIR imaging
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
Photoacoustic Imaging and Spectroscopy Lihong 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

Offbeat Integral Geometry on Symmetric Spaces Valery V. Volchkov, Vitaly V. Volchkov, 2013-01-30 The book demonstrates the development of integral geometry on domains of homogeneous spaces since 1990 It covers a wide range of topics including analysis on multidimensional Euclidean domains and Riemannian symmetric spaces of arbitrary ranks as well as recent work on phase space and the Heisenberg group The book includes many significant recent results some of them hitherto unpublished among which can be pointed out uniqueness theorems for various classes of functions far reaching generalizations of the two radii problem the modern versions of the Pompeiu problem and explicit reconstruction formulae in problems of integral geometry These results are intriguing and useful in various fields of contemporary mathematics The proofs given are minimal in the sense that they involve only those concepts and facts which are indispensable for the essence of the subject Each chapter provides a historical perspective on the results presented and includes many interesting open problems Readers will find this book relevant to harmonic analysis on homogeneous spaces invariant spaces theory integral transforms on symmetric spaces and the Heisenberg group integral equations special functions and transmutation operators theory

Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen

,2007 Analele Universității Din Craiova ,2004 **Mathematical Problems of Tomography** Izrail' Moiseevich Gel'fand, Semen Grigor'evich Gindikin, 1990 As early as 1917 Radon derived an explicit formula for the reconstruction of a function on the plane given its integrals over all lines In the late 1960s the first applications of the Radon formula appeared in radio astronomy and then in electron micrography The use of the Radon formula for constructing tomograms made possible by the advent of the computer saw its first use in clinical medicine in 1970 and earned its developers the Nobel Prize in medicine 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 **Cosmic Research** ,1993 **Octogon Mathematical Magazine** ,2005 *Scanning Microscopy* ,1993 **Integral Geometry and Tomography** Andrew Markoe,2006 This volume consists of a collection of papers that brings together fundamental research in Radon transforms integral geometry and tomography It grew out of the Special Session at a Sectional Meeting of the American Mathematical Society in 2004 The book contains very recent work of some of the top researchers in the field The articles in the book deal with the determination of properties of functions on a manifold by integral theoretic methods or by determining the geometric structure of subsets of a manifold by analytic methods Of particular concern are ways of reconstructing an unknown function from some of its projections Radon transforms were developed at the beginning of the twentieth century by researchers who were motivated by problems in differential geometry mathematical physics and partial differential equations Later medical applications of these transforms produced breakthroughs in imaging technology that resulted in the 1979 Nobel Prize in Physiology and Medicine for the development of computerized tomography Today the subject boasts substantial cross disciplinary interactions both in pure and applied mathematics as well as medicine engineering biology physics geosciences and industrial testing Therefore this volume should be of interest to a wide spectrum of researchers both in mathematics and in other fields **Soviet Physics, Crystallography** ,1988 *Mathematical Methods in Tomography* Gabor T. Herman,1991 The conference was devoted to the discussion of present and future techniques in medical imaging including 3D x ray CT ultrasound and diffraction tomography and biomagnetic imaging The mathematical models their theoretical aspects and the development of algorithms were treated The proceedings contains surveys on reconstruction in inverse obstacle scattering inversion in 3D and constrained least squares problems Research papers include besides the mentioned imaging techniques presentations on image reconstruction in Hilbert spaces singular value decompositions 3D cone beam reconstruction diffuse tomography regularization of ill posed problems evaluation reconstruction algorithms and applications in non medical fields Contents Theoretical Aspects J Boman Helgason's support theorem for Radon transforms a new proof and a generalization P Maass Singular value decompositions for Radon transforms W R Madych Image reconstruction in Hilbert space R G Mukhometov A problem of integral geometry for a family of rays with multiple reflections V P Palamodov Inversion formulas for the three dimensional ray transform Medical Imaging Techniques V Friedrich Backscattered Photons are they useful for a surface near tomography P Grangeat Mathematical framework of cone beam 3D reconstruction via the first derivative of the Radon

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 Gel'fand, M. I. Graev, N. Ya. Vilenkin, 2014-05-12 Generalized Functions Volume 5 Integral Geometry and Representation
 Theory is devoted to the theory of representations focusing on the group of two dimensional complex matrices of determinant
 one This book emphasizes that the theory of representations is a good example of the use of algebraic and geometric
 methods in functional analysis in which transformations are performed not on the points of a space but on the functions
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