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# Reconstructive Integral Geometry



Springer-Verlag, 1991

# Reconstructive Integral Geometry

**Gaik Ambartsoumian**



## **Reconstructive Integral Geometry:**

*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 8 from knowledge of the integrals  $M_I C$   $f_C$   $I_C$  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

**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 photoacoustics photoelasticity and strain tomography Reconstruction from Integral Data presents both long standing and r

**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

*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

*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

*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

Uniqueness Questions in Reconstruction of Multidimensional Objects from Tomography-Type Projection Data V. P. Golubyatnikov, 2014-07-24 The Inverse and Ill Posed Problems Series is a series of monographs publishing postgraduate level information on inverse and ill posed problems for an international readership of professional scientists and researchers The series aims to publish works which involve both theory and applications in e g physics medicine geophysics acoustics electrodynamics tomography and ecology

**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

*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     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

Three-Dimensional Image Reconstruction in Radiology and Nuclear Medicine Pierre Grangeat,Jean-Louis Amans,2013-03-09 This book contains a selection of communications presented at the Third International Meeting on Fully Three Dimensional Image Reconstruction in Radiology and Nuclear Medicine held 4 6 July 1995 at Domaine d Aix Marlioz Aix Ies Bains France This nice resort provided an inspiring environment to hold discussions and presentations on new and developing issues Roentgen discovered X ray radiation in 1895 and Becquerel found natural radioactivity in 1896 a hundred years later this conference was focused on the applications of such radiations to explore the human body If the physics is now fully understood 3D imaging techniques based on ionising radiations are still progressing These techniques include 3D Radiology 3D X ray Computed Tomography 3D CT Single Photon Emission Computed Tomography SPECT Positron Emission Tomography PET Radiology is dedicated to morphological imaging using transmitted radiations from an external X ray source and nuclear medicine to functional imaging using radiations emitted from an internal radioactive tracer In both cases new 3D tomographic systems

will tend to use 2D detectors in order to improve the radiation detection efficiency Taking a set of 2D acquisitions around the patient 3D acquisitions are obtained Then fully 3D image reconstruction algorithms are required to recover the 3D image of the body from these projection measurements      Inverse Problems and Imaging Luis L. Bonilla,2009-06-19 Nowadays we are facing numerous and important imaging problems nondestructive testing of materials monitoring of industrial processes enhancement of oil production by efficient reservoir characterization emerging developments in noninvasive imaging techniques for medical purposes computerized tomography CT magnetic resonance imaging MRI positron emission tomography PET X ray and ultrasound tomography etc In the CIME Summer School on Imaging Martina Franca Italy 2002 leading experts in mathematical techniques and applications presented broad and useful introductions for non experts and practitioners alike to many aspects of this exciting field The volume contains part of the above lectures completed and updated by additional contributions on other related topics      Analytic Tomography Andrew Markoe,2006-01-23 This study contains elementary introductions to properties of the Radon transform plus coverage of more advanced topics      **Deep Learning for Biomedical Image Reconstruction** Jong Chul Ye,Yonina C. Eldar,Michael Unser,2023-10-12 Discover the power of deep neural networks for image reconstruction with this state of the art review of modern theories and applications The background theory of deep learning is introduced step by step and by incorporating modeling fundamentals this book explains how to implement deep learning in a variety of modalities including X ray CT MRI and others Real world examples demonstrate an interdisciplinary approach to medical image reconstruction processes featuring numerous imaging applications Recent clinical studies and innovative research activity in generative models and mathematical theory will inspire the reader towards new frontiers This book is ideal for graduate students in Electrical or Biomedical Engineering or Medical Physics      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      *Cone Beam Computed Tomography* Chris C. Shaw,2014-02-14 Conventional computed tomography CT techniques employ a narrow array of x ray detectors and a fan shaped x ray beam to rotate around the patient to produce images of thin sections of the patient Large sections of the body are covered by moving the patient into the rotating x ray detector and x ray source gantry Cone beam CT is an alternative to      **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

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

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