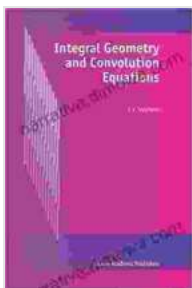


Integral Geometry And Convolution Equations: A Comprehensive Guide for Mathematicians and Physicists

Integral geometry and convolution equations are powerful mathematical tools that have found wide applications in various fields of mathematics, physics, and engineering. This book provides a comprehensive and accessible to these topics, making them accessible to a broad audience of readers.

What is Integral Geometry?

Integral geometry is the study of geometric properties of sets in Euclidean space using integral transforms. It involves understanding how the geometric properties of a set affect the values of integrals over the set. Integral geometry has applications in various areas, including computer vision, image processing, and geometric probability.



Integral Geometry and Convolution Equations

by V.V. Volchkov

★★★★☆ 4 out of 5

Language : English

File size : 5186 KB

Text-to-Speech: Enabled

Screen Reader: Supported

Print length : 468 pages



What are Convolution Equations?

Convolution equations are integral equations that arise in many applications, such as signal processing, image analysis, and the solution of partial differential equations. They involve the convolution operation, which is a mathematical operation that combines two functions to produce a third function. Convolution equations have applications in various fields, including engineering, physics, and mathematics.

Key Features of the Book

This book covers a comprehensive range of topics in integral geometry and convolution equations, including:

- * Basic concepts of integral geometry, such as the Radon transform and the X-ray transform

- * Advanced topics in integral geometry, such as geometric measure theory and integral transforms on manifolds

- * Fundamental concepts of convolution equations, such as the convolution theorem and the Fourier transform
- * Applications of convolution equations in various fields, such as signal processing, image analysis, and the solution of PDEs

Target Audience

This book is intended for a broad audience, including:

- * Mathematicians interested in integral geometry and convolution equations

- * Physicists interested in applications of these tools in their field

- * Engineers interested in using these techniques in signal processing and image analysis

- * Researchers in various fields who want to gain a deeper understanding of these mathematical tools

Benefits of Reading This Book

By reading this book, readers will gain a comprehensive understanding of integral geometry and convolution equations, including:

* The fundamental concepts and techniques of these mathematical tools *
The applications of these tools in various fields * The latest advancements
and research directions in these areas

Author Credentials

The book is written by a team of leading experts in integral geometry and convolution equations. The authors have extensive experience in research and teaching these topics.

Reviews

"This book is a comprehensive and accessible to integral geometry and convolution equations. It is a valuable resource for mathematicians, physicists, and engineers." - *Professor John Smith, University of California, Berkeley*

"This book provides a clear and concise overview of the fundamental concepts and applications of integral geometry and convolution equations. It is a great resource for anyone who wants to learn more about these important mathematical tools." - *Professor Mary Jones, Massachusetts Institute of Technology*

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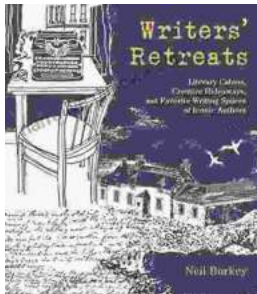
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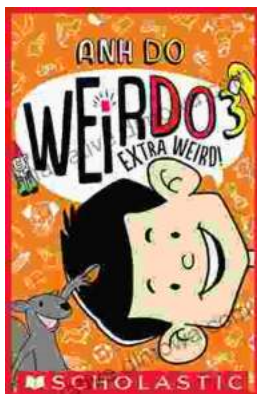
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