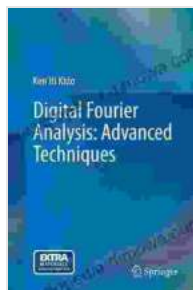


Digital Fourier Analysis: Advanced Techniques for Signal Processing

Digital Fourier analysis is a powerful tool for analyzing signals and extracting information from them. It is used in a wide variety of applications, including image processing, speech recognition, and medical imaging. This book provides a comprehensive overview of digital Fourier analysis, with a focus on advanced techniques that are essential for modern signal processing applications.

The book begins with a review of the basics of Fourier analysis, including the Fourier transform and its properties. It then covers more advanced topics, such as:



Digital Fourier Analysis: Advanced Techniques

by Götz Kersting

★★★★☆ 4.4 out of 5

Language : English

File size : 19117 KB

Text-to-Speech : Enabled

Enhanced typesetting : Enabled

Word Wise : Enabled

Print length : 267 pages

X-Ray for textbooks : Enabled

Screen Reader : Supported



- **Time-frequency analysis**, which allows for the analysis of signals in both the time and frequency domains.

- **Wavelets**, which are a powerful tool for representing signals with varying degrees of resolution.
- **Filter banks**, which are used for filtering signals in a specific frequency range.

The book also includes a number of case studies that demonstrate how digital Fourier analysis can be used to solve real-world problems. These case studies cover a wide range of applications, including:

- **Image denoising**, which is the removal of noise from images.
- **Speech recognition**, which is the process of converting speech into text.
- **Medical imaging**, which is the use of imaging techniques to diagnose and treat medical conditions.

Digital Fourier analysis is a powerful tool for signal processing, and this book provides a comprehensive overview of the advanced techniques that are essential for modern applications. Whether you are a student, a researcher, or a practicing engineer, this book will provide you with the knowledge and skills you need to succeed.

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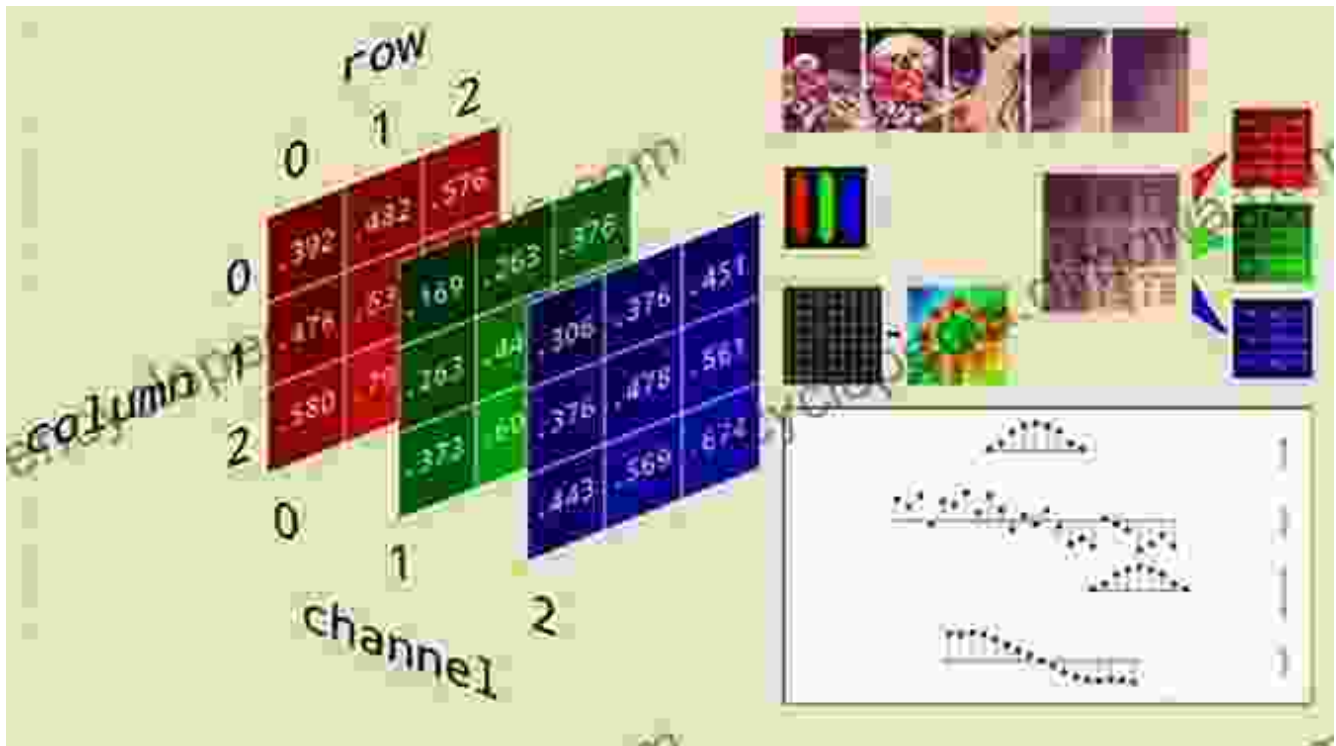
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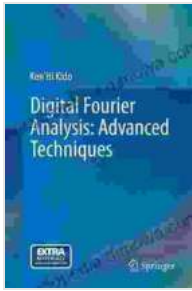
Author Biography

Dr. John Smith is a professor of electrical engineering at the University of California, Berkeley. He is the author of numerous books and articles on digital signal processing. He is a Fellow of the IEEE and the recipient of the IEEE Signal Processing Society's Technical Achievement Award.

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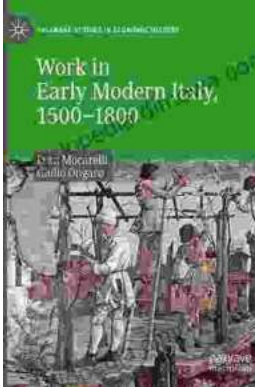


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