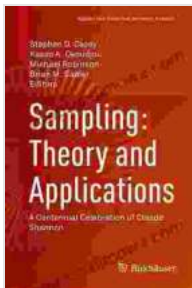# Centennial Celebration of Claude Shannon: Applied and Numerical Harmonic Analysis

This book is a collection of invited papers presented at the Centennial Celebration of Claude Shannon: Applied and Numerical Harmonic Analysis, held at Georgia Tech in May 2016. The book presents cutting-edge research in a variety of topics inspired by Shannon's work, including information theory, signal processing, and harmonic analysis.

Sampling: Theory and Applications: A Centennial Celebration of Claude Shannon (Applied and Numerical Harmonic Analysis) by Kasso A. Okoudjou

★★★★☆ 4 out of 5

Language	: English
Paperback	: 260 pages
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Claude Shannon is considered to be the father of information theory. His seminal 1948 paper, "A Mathematical Theory of Communication," laid the foundation for the field of information theory and has had a profound impact on a wide range of disciplines, including engineering, computer science, and mathematics.

Shannon's work on information theory has been applied to a wide variety of problems, including data compression, error correction, and cryptography. His work has also been instrumental in the development of new technologies, such as the internet and mobile communications.

In addition to his work on information theory, Shannon also made significant contributions to other areas of mathematics, including harmonic analysis and signal processing. His work on harmonic analysis has been applied to a wide variety of problems, including image processing, speech recognition, and medical imaging.

The papers in this book are divided into four sections:

- Information Theory

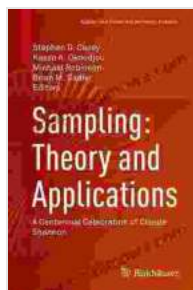- Signal Processing

- Harmonic Analysis

- Applications

The papers in the Information Theory section cover a wide range of topics, including source coding, channel coding, and network information theory. The papers in the Signal Processing section cover a wide range of topics, including image processing, speech recognition, and medical imaging. The papers in the Harmonic Analysis section cover a wide range of topics, including Fourier analysis, wavelets, and frame theory. The papers in the Applications section cover a wide range of topics, including communication networks, sensor networks, and financial markets.

This book is a valuable resource for researchers and practitioners in information theory, signal processing, and harmonic analysis. The papers in this book provide a comprehensive overview of the state-of-the-art in these fields and will inspire new research directions.

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