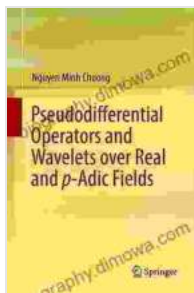


# Pseudodifferential Operators and Wavelets Over Real and Adic Fields: Applied and Theoretical Advances

## Delve into a Mathematical Tapestry

The realm of mathematics is a tapestry woven with intricate threads of theories, concepts, and applications. Among this vast tapestry, pseudodifferential operators and wavelets stand out as powerful mathematical tools with transformative potential across various scientific domains. This book presents a comprehensive exploration of these mathematical constructs, unveiling their theoretical foundations and practical applications.



## Pseudodifferential Operators and Wavelets over Real and $p$ -adic Fields (Applied and Numerical Harmonic Analysis)

★★★★★ 5 out of 5

Language : English

File size : 6171 KB

Print length : 379 pages



Pseudodifferential operators are mathematical operators that bridge the gap between differential operators and integral operators. They possess unique properties that make them indispensable in solving complex partial differential equations arising in quantum mechanics, mathematical physics, and other fields. Wavelets, on the other hand, are mathematical functions

that are localized in both time and frequency. They have revolutionized signal processing, image analysis, and other applications where precise analysis of data is crucial.

In this groundbreaking book, renowned mathematicians delve into the fascinating interplay between pseudodifferential operators and wavelets. They explore the theoretical underpinnings of these mathematical tools, providing a rigorous foundation for their practical applications. The book also showcases cutting-edge research in the fields of real and adic fields, opening up new avenues for mathematical exploration.

### **Unleashing the Practical Power of Mathematics**

Beyond the theoretical foundations, this book emphasizes the practical applications of pseudodifferential operators and wavelets. It presents a comprehensive overview of their use in diverse fields, including:

- Quantum mechanics: Solving complex partial differential equations that describe the behavior of quantum systems
- Signal processing: Analyzing and filtering signals to extract valuable information
- Image analysis: Processing and interpreting images to enhance their quality and extract features
- Partial differential equations: Finding solutions to complex partial differential equations that arise in various fields of science and engineering

The book is meticulously crafted to provide a balanced blend of theoretical insights and practical examples. Each chapter is written by leading experts in the field, ensuring a high level of accuracy and depth.

## **A Valuable Resource for Mathematicians and Practitioners**

"Pseudodifferential Operators and Wavelets Over Real and Adic Fields: Applied and Theoretical Advances" is an invaluable resource for mathematicians, scientists, and engineers seeking to advance their knowledge in these fields. It offers a comprehensive understanding of the theoretical foundations and practical applications of pseudodifferential operators and wavelets.

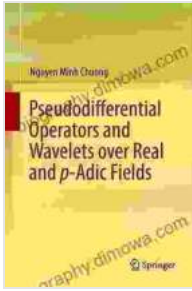
The book is suitable for researchers, graduate students, and practitioners who want to delve deeper into the mathematical principles that underpin modern scientific discoveries. It is also an excellent reference for professionals in fields such as quantum mechanics, signal processing, image analysis, and partial differential equations.

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Don't miss out on the opportunity to enhance your mathematical knowledge and expand your problem-solving capabilities. Free Download your copy now and embark on a journey that will revolutionize your understanding of the mathematical world.

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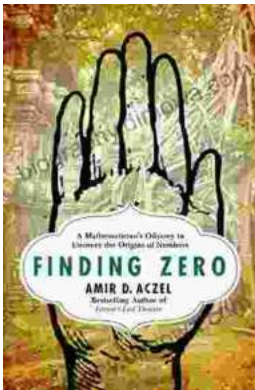


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