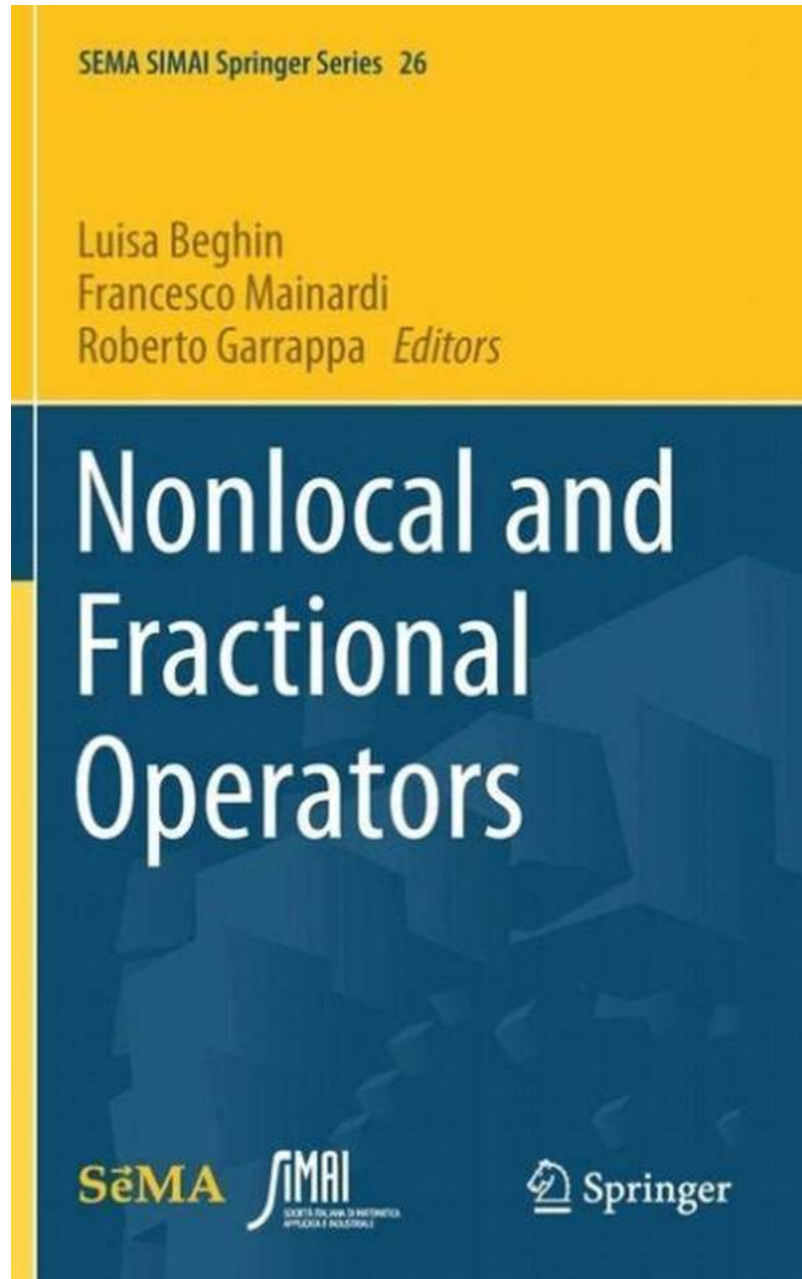


The Fascinating World of Nonlocal and Fractional Operators: Exploring Sema Simai's Work in Springer 26

Are you intrigued by the cutting-edge concepts of nonlocal and fractional operators in mathematics? If so, you're in for a treat as we dive into the captivating work of Sema Simai's book "Nonlocal And Fractional Operators" published by Springer in 26.



Cover of the book "Nonlocal And Fractional Operators" by Sema Simai

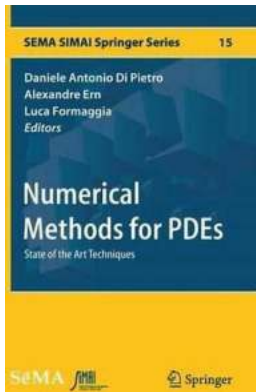
**Nonlocal and Fractional Operators (SEMA SIMAI
Springer Series Book 26)**

by Roberto Garrappa (Kindle Edition)

★★★★☆ 4.6 out of 5

Language : English

File size : 9279 KB



Screen Reader : Supported

Print length : 320 pages



In recent years, nonlocal and fractional operators have gained significant attention among mathematicians and scientists due to their unique properties and wide range of applications. The book by Sema Simai serves as an excellent resource for both experts and those new to the field, offering a comprehensive overview of these intriguing mathematical tools.

Understanding Nonlocal Operators

Nonlocal operators are mathematical operators that take into account the influence of distant points on a given point. Unlike traditional local operators, which rely solely on the values at a particular point, nonlocal operators consider the behavior of a function over an extended region.

Sema Simai, a distinguished mathematician and a leading expert in the field, delves deep into the theory and applications of nonlocal operators in her book. Through a meticulous study of her work, readers can grasp the fundamental concepts and techniques employed in this fascinating realm of mathematics.

Exploring Fractional Operators

Fractional operators, on the other hand, deal with differentiation and integration of non-integer order. While traditional calculus only accounts for integer-order derivatives and integrals, fractional operators extend these operations to non-integer orders.

Simai's book takes readers on a journey through the theory and applications of fractional operators, shedding light on their importance in various fields such as physics, engineering, and probability. With clear explanations and illustrative examples, she empowers readers to comprehend and utilize these advanced mathematical tools.

The Impact of Sema Simai's Work

Sema Simai's contributions to the field of nonlocal and fractional operators are truly remarkable. Her research has paved the way for new insights and advancements in several areas of mathematics and various interdisciplinary fields.

By focusing on the application aspects of nonlocal and fractional operators, Simai's work has bridged the gap between theoretical concepts and real-world problems. Her expertise has enabled researchers and practitioners to tackle complex phenomena that cannot be adequately described using traditional mathematical methods.

Innovative Applications

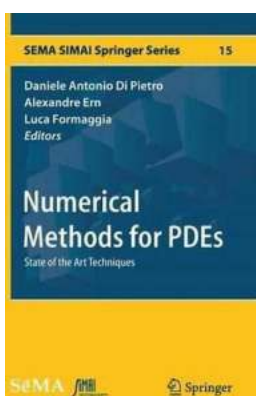
One of the most fascinating aspects of nonlocal and fractional operators is their applicability in a diverse range of scientific domains. Simai's book explores numerous real-world applications where these operators have proven to be essential tools.

For instance, nonlocal operators have found use in modeling heat conduction in complex media, understanding contagious diseases' spreading patterns, and even analyzing the behavior of financial markets. These applications highlight the far-reaching impact of nonlocal operators in addressing intricate problems across various disciplines.

Similarly, fractional operators have been employed to describe anomalous diffusion processes, model viscoelastic materials, and analyze the behavior of fractal structures. The ability of fractional operators to capture intricate dynamics beyond traditional mathematical models makes them indispensable for researchers exploring complex phenomena.

In , Sema Simai's book "Nonlocal And Fractional Operators" offers an insightful exploration into the captivating world of nonlocal and fractional operators. By studying Simai's work, readers can unravel the mysteries of these advanced mathematical tools and witness their powerful applications in diverse scientific disciplines.

If you're ready to delve into the fascinating realm of nonlocal and fractional operators, grab a copy of Sema Simai's book and embark on an exciting journey of discovery!



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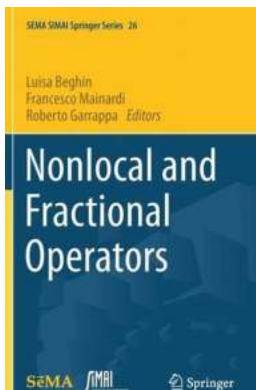
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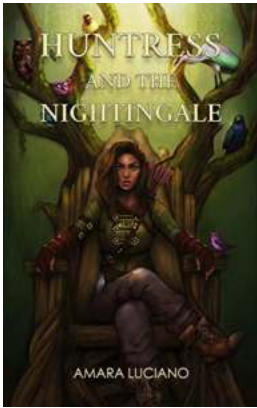


The purpose of this volume is to explore new bridges between different research areas involved in the theory and applications of the fractional calculus. In particular, it collects scientific and original contributions to the development of the theory of nonlocal and fractional operators. Special attention is given to the applications in mathematical physics, as well as in probability. Numerical methods aimed to the solution of problems with fractional differential equations are also treated in the book. The contributions have been presented during the international workshop "Nonlocal and Fractional Operators", held in Sapienza University of Rome, in April 2019, and dedicated to the retirement of Prof. Renato Spigler (University Roma Tre). Therefore we also wish to dedicate this volume to this occasion, in order to celebrate his scientific contributions in the field of numerical analysis and fractional calculus. The book is suitable for mathematicians, physicists and applied scientists interested in the various aspects of fractional calculus.



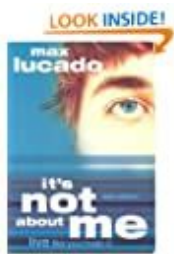
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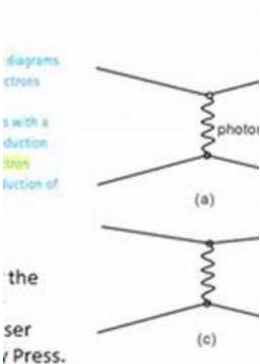
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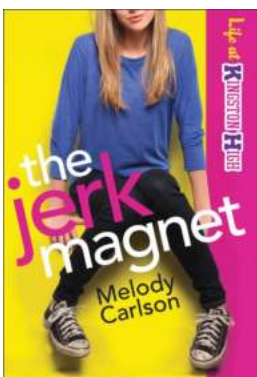
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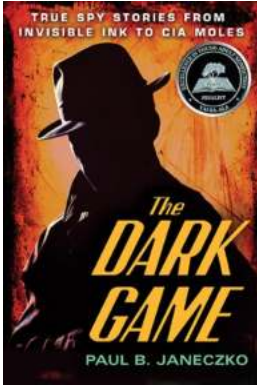
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