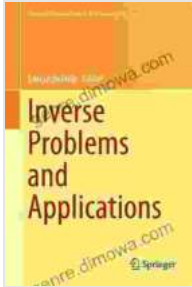


Unveiling the Enigmatic World of Inverse Problems: A Comprehensive Exploration for Researchers and Practitioners



Inverse Problems and Applications (Springer Proceedings in Mathematics & Statistics Book 120)

by Larisa Beilina

★★★★☆ 4.1 out of 5

Language : English

File size : 6025 KB

Print length : 174 pages

Screen Reader: Supported



Inverse problems are ubiquitous in scientific research and engineering applications, posing the intriguing challenge of inferring hidden causes or parameters from observable effects or measurements. This book, 'Inverse Problems and Applications: Springer Proceedings in Mathematics,' offers a comprehensive and cutting-edge exploration of this captivating field.

Scope and Coverage

This comprehensive volume delves into the theoretical foundations of inverse problems, covering topics such as:

- Variational formulations and regularization techniques
- Optimization algorithms for inverse problems
- Bayesian inference and uncertainty quantification

- Machine learning and deep learning for inverse problems

Furthermore, the book showcases a wide range of applications, including:

- Image reconstruction in medical imaging and computer vision
- Signal processing and time-series analysis
- Geophysical inverse problems in seismology and exploration geophysics
- Electromagnetic inverse problems in antenna design and microwave imaging
- Acoustics inverse problems in noise control and underwater acoustics

Key Features

This book stands out with its:

- In-depth theoretical coverage providing a solid foundation for understanding inverse problems
- Extensive treatment of numerical methods and algorithms, enabling practitioners to solve complex inverse problems efficiently
- Wide range of applications across various scientific disciplines, showcasing the versatility and impact of inverse problems
- Contributions from leading experts in the field, offering unique insights and cutting-edge research

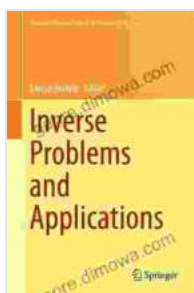
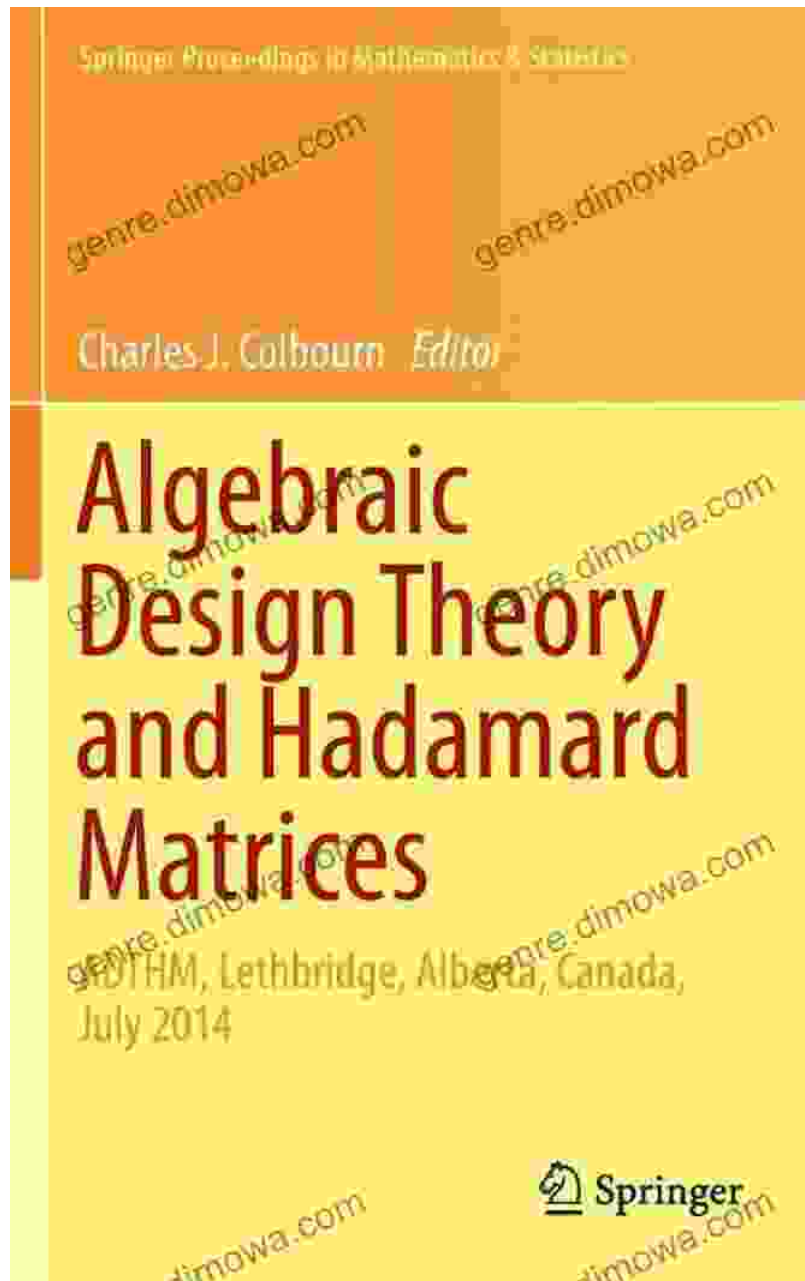
Target Audience

This book is an invaluable resource for:

- Researchers in applied mathematics, computational science, and engineering
- Practitioners in industry and government laboratories working on inverse problems
- Graduate students in mathematics, computer science, and engineering
- Anyone seeking to gain a comprehensive understanding of inverse problems and their applications

Call to Action

Unlock the secrets of inverse problems and empower yourself to solve complex scientific and engineering challenges. Free Download your copy of 'Inverse Problems and Applications: Springer Proceedings in Mathematics' today and embark on an enlightening journey into this fascinating field.



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