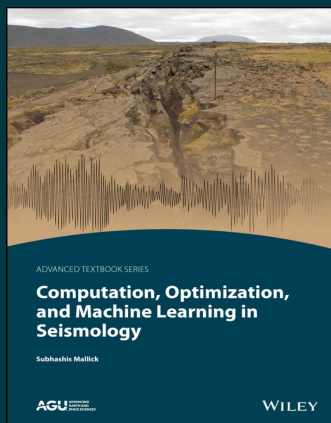




eBook - Computation, Optimization, and Machine Learning in Seismology

By [Subhashis Mallick](#)

eBook

9789373327495

₹ - Price

Pages: 416

Description

This textbook covers computational seismology, focusing on seismic wave theory, optimization, and machine learning for interpreting seismic data. It includes mathematical foundations, wave propagation, data processing, model optimization, AI methods, and applications in earthquakes and exploration seismology, with exercises for practical understanding.

About the Author

Subhashis Mallick

Subhashis Mallick, University of Wyoming, USA

Table of Contents

- 1 Introduction to Key Concepts in Seismic Inversion and Elastic Wave Theory
- 2 Mathematical Background
- 3 Fundamentals of the Linearized Elastic Wave Theory
- 4 Computation of Synthetic Seismograms in Inhomogeneous Medium: Approximate (Partial) Solutions
- 5 Computation of Synthetic Seismograms in Inhomogeneous Medium: Exact Solutions
- 6 Optimization of Functions
- 7 Local Optimization Methods in Seismology
- 8 Global Optimization Methods in Seismology
- 9 Artificial Intelligence for Seismic Inverse Problems
- 10 The Future of Seismic Inversion and Machine Learning

To purchase this product, please visit:

<https://www.wileyindia.com/ebook-computation-optimization-and-machine-learning-in-seismology.html>



Scan to buy