



Mathematics of Multidimensional Seismic Imaging, Migration, and Inversion (Interdisciplinary Applied Mathematics)

By N. Bleistein, J.K. Cohen, John W. Jr. Stockwell

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For more than 80 years, the oil and gas industry has used seismic methods to construct images and determine physical characteristics of rocks that can yield information about oil and gas bearing structures in the earth. This book presents the different seismic data processing methods, also known as seismic "migration," in a unified mathematical way. The book serves as a bridge between the applied math and geophysics communities by presenting geophysicists with a practical introduction to advanced engineering mathematics, while presenting mathematicians with a window into the world of the mathematically sophisticated geophysicist.

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- Sales Rank: #2609631 in Books
- Published on: 2000-12-15
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x 1.19" w x 6.14" l, 2.06 pounds
- Binding: Hardcover
- 510 pages

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