



# **Fractal Models in Exploration Geophysics, Volume 41: Applications to Hydrocarbon Reservoirs (Handbook of Geophysical Exploration: Seismic Exploration)**

*V.P. Dimri, R.P. Srivastava, Nimisha Vedanti*

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Researchers in the field of exploration geophysics have developed new methods for the acquisition, processing and interpretation of gravity and magnetic data, based on detailed investigations of bore wells around the globe. *Fractal Models in Exploration Geophysics* describes fractal-based models for characterizing these complex subsurface geological structures.

The authors introduce the inverse problem using a fractal approach which they then develop with the implementation of a global optimization algorithm for seismic data: very fast simulated annealing (VFSA). This approach provides high-resolution inverse modeling results-particularly useful for reservoir characterization.

\* Serves as a valuable resource for researchers studying the application of fractals in exploration, and for practitioners directly applying field data for geo-modeling \* Discusses the basic principles and practical applications of time-lapse seismic reservoir monitoring technology-application rapidly advancing topic \* Provides the fundamentals for those interested in reservoir geophysics and reservoir simulation study \* Demonstrates an example of reservoir simulation for enhanced oil recovery using CO<sub>2</sub> injection

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