Wavelets in Geophysics: 4 (Wavelet Analysis and Its Applications)

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Applications of wavelet analysis to the geophysical sciences grew from Jean Morlet's work on seismic signals in the 1980s. Used to detect signals against noise, wavelet analysis excels for transients or for spatiallylocalized phenomena. In this fourth volume in the renown WAVELET ANALYSIS AND ITS APPLICATIONS Series, Efi Foufoula-Georgiou and Praveen Kumar begin with a self-contained overview of the nature, power, and scope of wavelet transforms. The eleven originalpapers that follow in this edited treatise show how geophysical researchers are using wavelets to analyze such diverse phenomena as intermittent atmospheric turbulence, seafloor bathymetry, marine and other seismic data, and flow in aquifers. **Wavelets in Geophysics** will make informative reading for geophysicists seeking an up-to-date account of how these tools are being used as well as for wavelet researchers searching for ideas for applications, or even new points of departure.

Key Features
* Includes twelve original papers written by experts in the geophysical sciences
* Provides a self-contained overview of the nature, power, and scope of wavelet transforms
* Presents applications of wavelets to geophysical phenomena such as:
* The sharp events of seismic data
*Long memory processes, such as fluctuation in the level of the Nile
* A structure preserving decomposition of turbulence signals

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