Mathematics and Geosciences: Global and Local Perspectives. Vol. II

By María Charco

Springer-Verlag Gmbh Apr 2016, 2016. Taschenbuch. Book Condition: Neu. 264x195x22 mm. Neuware - This is the second volume of the topical issue 'Mathematics and Geosciences: Global and Local Perspectives' which embraces 21 papers on different topics relating to Mathematics and Geosciences. They address different topics under both global and local perspectives, such as a method for calculating probabilities for large events in systems such as earthquakes, typhoons, etc.; the use of the Laplace-Fourier-domain full waveform inversion technique to deep-sea seismic data; discrete element modeling; step-edge detection filters, study of a transition zone of the Narmada-Son lineament; integral formulae for recovering the sub-crustal stress from terrestrial gravimetric data; numerical simulations of earthquake fault systems and their use to estimate gravity changes; application of Gaussian clustering to joint interpretation of seismic and magnetotelluric data; on the reliability and fidelity of archaeomagnetic and volcanic records to recover the past evolution of the Earth's magnetic field; the study, for the first time, of variations in absolute surface geostrophic currents (SGC) using satellite data only; discussion of the inconsistency of IAU2000 non-rigid earth nutation model; the study of nonlinear anisotropic diffusive filtering applied to the ocean s MDT; the numerical solution of a nonhydrostatic ocean...

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