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Shear-Wave Velocity of the Ground Near Sixty California Strong Motion Recording Sites by the Spectral Analysis of Surface Waves (SASW) Method and Harmonic-Wave Sources: USGS Open-File Report 2005-1366

By United States Geological Survey (USGS) U. S. Department of the Interior

Bibliogov Feb 2013, 2013. Taschenbuch. Book Condition: Neu. 246x189x8 mm. This item is printed on demand - Print on Demand Neuware - The seismic networks for California are coordinated through the Northern California Seismic Net (NCSN), the U.C. Berkeley Digital Seismic Net (BDSN), the southern California Seismic Network (SCSN), and the seismological laboratory of the University of Nevada, Reno (UNR). These networks are administered through collaborative efforts of the U.S. Geological Survey, California Institute of Technology (SCSN), U.C. San Diego and U.C. Berkeley, UNR, and the California Geological Survey (CSMIP). Many hundreds of these sites have little or no quantitative characterization for site amplification effects or natural site period of vibration. In this study, we investigate sixty strong motion recording (SMR) sites using an active-source approach that employs ultra-low frequency-controlled harmonic waves to measure the dispersive nature of surface waves in the ground. An inversion algorithm employing a non-linear least-squares best fit is used to invert shear-wave velocities for the upper 30 meters of the soil column. The overall objective of this project is to visit unclassified California strong motion recording (SMR) sites and acquire spectral analysis of surface waves (SASW) data to characterize the site stiffness properties to a...



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