Click Here

Seismosignal user manual

Seismosignal.

SeismoSignal is software that makes it easy to process strong-motion data using a user-friendly visual interface, helping engineer seismologists and earthquake engineers get the information they need. With SeismoSignal, you can calculate key parameters like elastic response spectra, Fourier and Power spectra, and more. It also lets you filter out unwanted frequency content of signals using different digital filters. The software can read accelerograms in various formats, apply baseline correction, and even integrate with other Windows applications to share results. A trial version is available for download. SeismoSelect is software that makes it simple to search, pick, scale, and download ground motion data from various online databases. Dagra Version:2.0.12 converts printed data into numerical data for engineering design calculations and analysis. GaeaSynergy Version:4.0 offers geoscientific analyses, mapping, data display, and management. SeismoSignal 3D simplifies strong-motion data processing in 2 or 3 dimensions with a user-friendly interface, generating necessary parameters for engineers. It can read accelerograms from different formats, filter, and baseline-correct data using polynomials or digital filters. Results can be copied to any Windows application. SeismoSignal calculates various parameters like CAV, SED, RMS acceleration and velocity, SMA, SMV, EDA, ASI, VSI, and spectrum intensity for seismic signals. It also determines predominant and mean periods (Tp and Tm), Husid plots, energy flux, bracketed, uniform, significant, and effective durations. The software can filter unwanted frequencies using three types of digital filters: highpass, lowpass, bandpass, and bandstop. SeismoSignal reads accelerograms in single or multiple values per line formats and applies baseline correction and filtering before time-integration to obtain velocity and displacement histories. Additionally, it allows for numerical and graphical results to be copied into Windows applications like MS Excel or MS Word, with customizable plot characteristics within the program itself.