

Structural Engineering Software


Michigan

090909090909

secretariat@geoengineer.org

Software title	Seismosignal
Software Category	Other
Provider	Sample Agent
Software type	Freeware
Is Featured	No
Price	\$ 0,00

Other Information

Description	<p>SeismoSignal constitutes an easy and efficient way to process strong-motion data, featuring a user-friendly visual interface and being capable of deriving a number of strong-motion parameters often required by engineer seismologists and earthquake engineers.</p> <p>SeismoSignal is an easy and efficient way to process strong-motion data, featuring a user-friendly visual interface and being capable of deriving a number of strong-motion parameters often required by engineer seismologists and earthquake engineers. SeismoSignal calculates: elastic and constant-ductility inelastic response spectra Fourier and Power spectra Arias (Ia) and characteristic (Ic) intensities Cumulative Absolute Velocity (CAV) and Specific Energy Density (SED) Root-mean-square (RMS) of acceleration, velocity and displacement Sustained maximum acceleration (SMA) and velocity (SMV) Effective design acceleration (EDA) Acceleration (ASI) and velocity (VSI) spectrum intensity predominant (Tp) and mean (Tm) periods Husid and energy flux plots Bracketed, uniform, significant and effective durations SeismoSignal also enables the filtering of unwanted frequency content of the given signal. Three different digital filter types are available, all of which capable of carrying out highpass, lowpass, bandpass and bandstop filtering. The program is able to read accelerograms defined in both single- and multiple-values per line formats (the two most popular formats used by strong-motion databases), and can apply baseline correction and filtering prior to time-integration of the signal (to obtain velocity and displacement time-histories). Finally, and due to its full integration with the Windows environment, SeismoSignal allows for numerical and graphical results to be copied to any Windows application (e.g. MS Excel, MS Word, etc.), noting that the plots characteristics can be fully customised from within the program itself.</p>
Rate:	

Supported Operating Systems:

Basic information

More features

Rooms' details