



## **Analysis of Seismic Noise**

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*Received July 13, 2010; Accepted July 26, 2010*

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**Abstract:** To select a potential location for a future seismological station properly, it is of crucial importance to explore the existing local *seismic tremor* recorded by seismographs. This tremor/noise is referred to as seismic tremor, whereat it is necessary to define as precisely as possible its spectral characteristics. On the other hand, for the needs of micro zoning, it is important to define the existence of possible geological layers and structures immediately below the location or farther, whose resonant characteristics could intensify the ground motion under the effect of strong (according to magnitude) local or regional earthquakes. Such local effects could aggravate and, in some cases, make impossible the accurate definition of the earthquake energy (their magnitude) and the parameters of concern for the seismological and engineering-seismological investigations. Therefore, in addition to other geophysical methods, it is of particular importance to define the spectral characteristics of the local tremor at the investigated sites.

**Key words:** *analysis, seismic, investigations, noise, frequency,*

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