PECULIARITIES OF METHODS AND INSTRUMENTATION FOR SEISMIC PROCESS REGISTRATION IN A WIDE FREQUENCY BAND

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The paper describes the possibility of seismic emission registration in a wide band of frequencies, including both the high frequency range of microseismic events and the traditional frequency range of regional seismic network. The existing observation systems sensitivity in the frequency range of 0.01-100 Hz has been analyzed. The choice of the accelerometer receiver type, which allows satisfying the requirements for frequency response and sensitivity was proven. The author proposes a type of broadband transducer, which possesses the required parameters. The features of its construction were considered.

Keywords: accelerometer , seismic noise, piezoelectric bending transducer type.