

Using the Baikal-8 recorders for seismic monitoring of buildings and structures in real time in Seismological Branch of the GS RAS

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SEB GS RAS, Novosibirsk, Russia

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Abstract The paper describes the composition of hardware and software parts of the seismic data transmission complex. The complex has been developed as a variant of a practical approach to the implementation of the method of engineering-seismic monitoring developed in SEB GS RAS. The method is based on spectral and quantitative analysis of the amplitude-frequency components of the signal emitted by the studied sources. Examples of the operation of the complex at industrial facilities and in civil construction are given, various approaches to the analysis of forced vibrations caused by the operation of large industrial equipment and normal oscillations of structures are shown.

Keywords Hardware and software complex, seismic signal, monitoring.

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Information about authors

Bryksin Alexey Alexandrovich, Head of Laboratory of the Seismological Branch of the Geophysical Survey of the Russian Academy of Sciences (SEB GS RAS), Novosibirsk, Russia. E-mail: fater.gs@gmail.com

Gromyko Pavel Vladimirovich, Researcher of the SEB GS RAS, Novosibirsk, Russia. E-mail: gromykovp@mail.ru

Sevostyanov Dmitriy Borisovich, Geophysicist Engineer of the SEB GS RAS, Novosibirsk, Russia. E-mail: sevostyanov.dmitri@gmail.com