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EXPLORATION OF PIEZOELECTRIC AND POLYMETALLIC DEPOSITS IN MOUNTAIN ROCKS

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Abstract. A series of scientific studies conducted at Schmidt Institute of Physics of the Earth of the Russian Academy of Sciences. We studied linear and nonlinear mechano-electric transformations of piezoelectric and polymetallic ore occurrences in natural rocks and in laboratory conditions. The results of experimental geophysical exploration jointly by piezoelectric and radio pulsed methods on a number of mineral deposits are presented. Methodical aspects of the interpretation of sources of electromagnetic radiation in a rock mass are described.

Keywords: geophysical research, piezoelectric effect, radio pulsed radiation, elastic waves, electromagnetic radiation, reconnaissance methods, mechanoelectric transformations.

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