

SEISMIC METHOD OF DEFINITION OF MAJOR PHYSICAL AND MECHANICAL PROPERTIES SAND AND CLAY GROUNDS

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The seismic method, developed by the authors, for definition of physical and mechanical properties sand and clay grounds for the decision of applied tasks of engineering geophysics is based on three basic elements. The first important element of a way is the created original methodical basis of objective definition of numerical values of velocity of distribution of P and S waves in the given space of environment. The decision of this task is realized on the basis of use of recordings of P-waves, S-waves or Releys waves of a type on ground seismic investigations or at supervision in boorhols. The second key element of a way is the original advanced seismic model of a granular ground. On the basis of this model it is possible more precisely and adequately to describe seismic properties real sand and clay grounds. The third component of a way is the assumption of legitimacy of application of the created seismic model of a ground to real engineer-geological grounds, that allows to establish on the basis of some simple classification characteristics grounds both limits and forms for answer of seismic and physical and mechanical properties grounds. The specification and updating of the form of this interdependence is carried out on the basis of results of a plenty of experimental researches under large objects of Engineering Activities.