

Method for measurement of contact forces between elements of sample of structured medium is in formation on the surface of the sample of pulse load during which one measures parameters of contact interaction between the elements by means of mechanical-electric transformer. At least three mechanical-electrical transformers for measurement of three components of force vector are mounted to cavities formed inside separate elements of the sample. The pulse load is performed with account of geometrical peculiarities of the elements of the system of structured medium on the surface of three-dimensional sample. The signals obtained are through coordination and registration units sent to the unit for information processing for evaluation of changes of time parameters of the excitation propagation process. This invention relates to mechanics of propagation of spatial excitations in any media through obtaining response of elements forming the medium on quick-flow load.