

Abstract

This report presents an overview of measuring instruments for mechanical stresses. Also examined are methods of measuring mechanical quantities, namely: deformations of the investigated object, which arise under the action of the measured effort; parameters of converters that change under the influence of the effort under investigation; directly properties of the investigated object, which depend on the forces acting on them; effort by the method of balancing transformation, when the measured effort is balanced by compensating effort.

The classification of devices for measuring mechanical quantities is given. Separately, the construction of a pin-sensor as an instrument for measuring forces is considered, as well as its features, examples of its location and fixation are shown.

Key words: mechanical stresses, forces, mechanical values, pin-gauge.