

Annotation

Diploma devoted to the actual topic development instrument for measuring the electrical conductivity of the material.

The diploma includes introduction, analytical review, a description of the device, the calculation of eddy current transducer, the calculation of basic units of functional circuits, the probability of control. The described technology transducer assembly and method of control. Also developed scheme of structural, functional diagram, electrical circuit schematic, assembly drawings detailing (hood, trunk, core).

As a result of the work on this report was developed device for measuring the electrical conductivity of sheets made of various metals thickness up to 4mm. and has a depth of penetration to 2.5mm. The converter is made in the form of superimposed eddy current transducer, it has not great dimensions and allows you to get into difficult places available for the controls to.