Summary

Diploma project dedicated to the development Eddy current device for dvoparametrovoho control wire. This work was a student of the department "devices and systems NDT" (NTU "KPI"), Maksim Pozharskiy.

The project volume of 55 pages, consists of introduction, 4 chapters, general conclusions, list of references, 2 graphics, tables 2 and 4 applications.

In the first section of the project justified the choice of control, with all the advantages and disadvantages. The second section provides a walk-through calculation GSP, depending on the voltage vnosymoyi efektyvnoyiyi permeability, travel times and building a system MatLAB. The third section describes the structural and functional scheme. In the fourth section describes the selection of components and the development of electrical circuits and power schemes.

The degree project is performed according to the task. This device can be used in industry to control copper wire (rods) with a diameter of 20mm.