

ABSTRACT

Explanatory note to DR: 89 p., Table 15., 31 Fig., 37 Sources.

Keywords: WAYBILL EDDY CURRENT TRANSDUCER, EDDY CURRENT, VOLTAGE, IDENTIFICATION OF CONTROL.

The theme of the thesis - research object identification method of control for solving eddy current flaw.

The aim of the thesis: To evaluate the possibility of identification method.

In the process, reviewed the main methods of nondestructive testing of surface defects. It was considered the advantages of eddy current NDT method, and generally accepted classification criteria overhead GSP and GSP scheme include. Familiarize yourself with the basic methods of identifying the object of control. With the tools and MATLAB System Identification Toolbox obtained differential equations that can be used can be used to understand system behavior, forecasting problems, forecast future values.