## SUMMARY

**The theme of the graduate work** - a device for testing based on the impactwave method.

**The aim of the graduate work** is to develop a device for testing of multilayer structures using the acoustic method of NDT.

**Graduate work** consists of summary, contents, introduction, three sections, conclusions, list of references and applications.

The first section describes the general principles of acoustic testing and existing methods are considered. Also the impact-wave method, devices based on it, modern equipment, possible objects that can be tested and perspectives of this method are considered in details.

The second section is devoted to the designing of the device, namely an electromagnetic vibrator indenter, signal receiver and software.

In the third section, experimental research using finished working device is shown and the appropriate conclusions are made.

As a result of the graduate work following tasks have been resolved: literature review of the theme, the relevant calculations, experimental research and finished working device have been done.