

## ABSTRACT

Master's dissertation contains of:

- 105 pages;
- 62 figures;
- 7 tables;
- 6 lists of graphics;
- 41 sources in the list of references.

The technique, the principle of which is based on magnetic suspension, is now becoming increasingly widespread in transport, in industry, in military technology, and geophysical facilities. The most striking example of the use of the phenomenon of magnetic levitation is the trains - maglevs, which are the fastest kind of land-based public transport.

The purpose of the work is: substantiation of the use of active magnetic suspensions, the development of active vibration protection system and contactless control of the position of the object on the basis of electromagnetic suspension, analysis of the developed system, based on the received indicators of regulation.

In the master's dissertation an experimental installation for carrying out of researches and visual representation of physical processes proceeding in systems of electromagnetic hanging is developed; Methods of control of systems of electromagnetic hanging are investigated; The choice of optimal parameters of the regulators was carried out, proceeding from the necessary indicators of the quality of regulation.

The results of the master's work made 3 posts.

**MAGNETIC SUSPENSION, VIBRATION, MANAGING CONTROLLER,  
DAMPER, OPTIMIZATION, PERMANENT MAGNETS**

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