

ABSTRACT

Master's thesis "High precision gravimeter": 95 p., 32 figures, 39 sources.

The object of research - quartz, strings, gyroscopic gravimeters, element Plytya.

The purpose of the work is to increase the stability and accuracy of measurements of a gravimeter, the development of a mathematical model, temperature stabilization of the device, the development of a startup.

The method of research - the analysis and synthesis of systems of automatic regulation of temperature of the case of a gravimeter.

The temperature scheme of automatic regulation, the graphic diagram of a gravimeter is investigated. The quality of the management of the system is estimated and the results are presented.

The results of the master's thesis will be used in the development of a thermosetting gravity meter, which will provide us with more accurate and stable measurement results, which will improve the quality of the analysis of the earth's surface.

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