Summary

The task of bachelor project is to design a device for measuring thickness by ultrasonic method. The object of control is the ship's hull.

At the beginning of the baccalaureate work theoretical materials with the basic information about methods, goals and tasks of ultrasonic thickness measurement and areas of its application were outlined.

The main part of the work is the calculation of the ultrasonic path of the converter and additional parameters necessary for the design of the device.

The results of the calculation made it possible to determine the structure of the circuit and the design of the converter, as well as to select the necessary elements from which the device was then compared.

At the final stage of work were carried out calculations and selection of functional nodes of the circuit of electric principle.

The results of the work allow us to construct a capable instrument for measuring the thickness, which corresponds to the task.