

Annotation

The master's dissertation of students of the group PK-01mp Herasymchuk Mykhailo on the topic "Computer-integrated ultrasonic system for eye disease diagnostics" consists of an introduction, 6 chapters, conclusions and a list of references. The introduction substantiates the relevance and practical value of the chosen topic, sets the goal and objectives of the study. The first section provides an overview of the structure and disease of the eye; devices and systems for the diagnosis of eye diseases. In the second section the acoustic and electroacoustic paths were calculated, the nodes of the circuits of the electrical principle were calculated, the structural and functional schemes were developed. The third section simulates a bandpass filter. In the fourth section, the PCB was modeled and a piezoelectric transducer was developed in SolidWorks. In the fifth section, the probability of diagnosis was calculated. In the sixth chapter, a startup project for the topic of the dissertation was developed. The conclusions summarize the study and the list of references, the sources on the basis of which the study was conducted.

Key words: piezoelectric transducer, acoustic tract, electroacoustic tract, schematic diagram, modeling, printed circuit board, diagnostics, eye diseases.