

Anotation

Pre-diploma practice was held at the Scientific Research Center "Instruments and Systems of Energy Efficiency ", which is a structural unit of the research department of the National Technical University of Ukraine "Igor Sikorsky Kyiv Polytechnic Institute".

The main goal of Scientific Research Center is developing modern systems for designing means that measuring the flow, pressure, temperature and level; development of systems for designing means that measuring rapidly changing and fast-moving energy carrier's flow rate; creation of the interaction model of measured liquids flows with sensitive elements of instruments for cases steady and unsteady flow conditions.

During practice, application features of ultrasonic flowmeters were revealed, classification of ultrasonic methods for measuring liquid flow rates was considered; A comparative analysis of existing ultrasonic flowmeters implementing the time-pulse method is carried out.

The motion and heating fluid processes in the model of heat exchange apparatus studied in CAD/CAE SolidWorks.