

Abstract

The aim of the graduation project is to model finite elements for thin-layer semiconductor Hall sensors and to understand their action in strong magnetic fields.

Modeling was performed using the COMSOL FEM program. Using the program, we built a 2D model of the SJM Hall Sensor.

The section "Life Safety" presents a fire alarm system in the laboratory.

In the economic section of the diploma, the calculation of costs for research work, calculation of annual operating costs, calculation of income indicators and economic efficiency was carried out.