

**Abstract**

Diploma project is dedicated to model of three-dimensional dynamics of multicopter type with autopilot in Matlab Simulink. Model of autopilot realizes control of three-dimensional movement of aerial vehicle with 4 control channel. For choice of optimal instrumental settings of autopilot was done linearization of nonlinear three-dimensional movement system.

Project consist of introduction, four chapters, conclusion, bibliography and appendixes.

There are 8 tables, 17 figures, 25 literature sources and