Abstract

This diploma project analyzes noise immunity of channels. The project shows the noise-resistant codes and best receivers. Also the characteristics of noise in the channel and block diagrams optimal error-correcting receiver were introduced. Estimation part calculates the probability of error at an optimum non-coherent reception of signals in the AMC channel to the "white noise". Abstract noiseless coding and modulation types using the program «SystemView» were shown. The questions of the organization of occupational safety and health and safety were discussed, as well as lists for the required calculations.

Economic part has technical and economic parameters of the project, which confirms that the project is economically feasible and efficient.