

Annotation

In this diploma project was developed laboratory test bed overhead cranes bridge control. The goal of the project is developing of overhead crane test bed control system for further student's education, also considering of protection system for safety usage and economic efficiency calculation of control system.

A distinctive feature of this work is solving of problem of synchronous rotating of two of several electrical drives in different control systems. For programmable logical controller operation was written a program for bridge exit at a given point. Economic efficiency of real object modernization in manufacturing was calculated. Also was provided calculation and analysis of noise created from electrical drives.