

ABSTRACT

The Bachelors Thesis contains 109 pages, 42 figures, 4 plots and 2 appendices.

The objective of the Bachelors Thesis is the development of the bench for researching of control algorithms of the autonomous doubly-fed induction machine, which works autonomous. Control algorithm of loading machine and control algorithm of doubly-fed induction machine were designed in the Bachelors Thesis. An experimental bench and guidelines for laboratory works for researching of the doubly-fed induction machine were developed. Testing of the experimental bench has been performed. An example of a reference laboratory report is given.

DOUBLY-FED INDUCTION MACHINE, SINGLE GENERATOR,
GENERATION SYSTEM, LABORATORY BENCH, FIELD ORIENTED CONTROL,
ELECTROMECHANICAL SYSTEM

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