

Topics of Master's Degree Theses:

1-43 80 03 "Heat Power and Engineering"

1. Development of Closed Two-Phase Heat Transfer Systems and Methods to Improve Their Efficiency.
2. Heat Exchange Process Research at Phase Transitions of Ozone-Safe Refrigerants for Heat Flux Removal in case of Energy Generation at Heat and Nuclear Power Stations, in Renewable Energy Technologies.
3. The Use of Highly Efficient Equipment and Technologies that Involve the Processes of Cogeneration and Trigenation (Heat, Cold, Electric Power).
4. Heat Recovery Turbine-Generator Power Installation.
5. Development and Grounding of Energy Trigenation Schemes on Steam-Gas Installations of Condensing Power Stations and Heat Power Plants.
6. Forecasting of Energy Efficiency of Heat Power Industrial Consumers.
7. Evaluation of Energy Saving Potential of Heat Consumers.
8. Experimental Research of High-Efficiency Heat Transferring Devices
9. Heat Exchange when Ozone-Safe Substances Vaporize in High-Efficiency Heat Transferring Devices

1-43 80 01 " Electrical Power and Engineering"

1. Forecasting of Energy Efficiency of Industrial Consumers (by Industries)
2. Evaluation of Energy Saving Potential of Industrial Consumers
3. Mathematical Model Development for Forecasting Power Consumption of Industrial Consumers in the Conditions of Changing Production Program and Measure Implementation for Energy Saving
4. Research of Formation Regularities of Power Consumption Structure of Industrial Consumers with the Use of Mathematical Information Processing Methods
5. Software Development for Modeling Energy Consumption of Fuel and Energy Resource Consumers
6. Development of Mathematical Models of Energy Consumption Of Consumers with a Complex Connection between Energy and Technology
7. Electric Power Quality
8. Comprehensive Efficiency Evaluation of Energy Saving Measures in Power Supply Systems
9. Influence of Current and Voltage Harmonics on the Operation of Electric Grid Elements
10. Electric Safety. Electrical Engineering Materials Science.
11. Influence of Climatic Factors on the Solar Power Plant Efficiency
12. Research of Electrophysical Characteristics of Solar Power Plant Elements