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Fracture Failure Mechanism Analysis of LP Second Stage Blades of a Gas TurbineEffect of Temperature Cycling on Stress Relaxation Behavior of Electrical Connector Contacts; Loss Analysis and Calculation Method of the Switched Reluctance Motor; Research on Characteristics of Variable Pitch Offshore Wind Turbine; Analysis of Plastic Optical Fiber Based Daylight System Suitable for Building Applications; Design and Performance of Horizontal Axis Wind Turbine Using Blade Element Momentum Theory (BEMT)
Optimization of Multi-Pole Permanent Magnet Synchronous Generator Based 8 Blade Magnetically Levitated Variable Pitch Low Speed Vertical Axis Wind TurbineEffects of Double Glazing on the Performance of a Solar Thermal Collector; Extended Modulation Index with more Eliminated Low Order Harmonics at Cascaded Multilevel Inverters; Thermal Structure Analysis and Optimization of the Feeding System of the Permanent Magnet Linear Synchronous Motor; Experimental and Validation of Photovoltaic Solar Cell Performance Models in Desert Climate
Simulation on Building Energy Consumption for a Residential BuildingAn Estimation Strategy of Lithium Battery SOC Based on Gauss-Hermite Filter; Chapter 2: HV Power Lines Technologies; Research on Prediction Model of Discharge Voltage under High-Altitude Condition Based on BP ANN; Test Research on Phase-to-Ground Air-Gap Discharge Characteristics of UHV Substation; The Simulation Study of Transformer Inductive Oscillating Switching Impulse Voltage Generation; Research on the Failure Prediction of Electrical Connectors at High Temperature
Research on an Accident of 500 kV Gas Insulated Transmission Line

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2013 3rd International Conference on Power and Energy Systems, November 23-24, 2013, Bangkok, Thailand. The 106 papers are grouped as follows: Chapter 1: Research and Design of Machinery in Energy Industry and Energy Technologies for Industry; Chapter 2: HV Power Lines Technologies; Chapter 3: Innovative Materials and Chemical Technologies for Power Industry and Energy Systems; Chapter 4: Innovative Design, Engineering Management and Automation of Modern Energy Systems