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Nota di contenuto	Power and Energy Systems III; Preface, Committees and Sponsors; Table of Contents; Chapter 1: Research and Design of Machinery in Energy Industry and Energy Technologies for Industry; Prediction of Vehicle Fuel Consumption Model Based on Artificial Neural Network; DeNOx Technology Selection and Optimal Design of SNCR System for a 300MW CFB Boiler; Design and Development of 850t/h CFB Boiler with Energy Saving Technology; Evaluation the Role of Multi-Stage Compression and Waste Heat Recovery on Compressed Air Energy Storage System Performance Appropriate Electric Energy Conservation Measures for Big Mosques in Riyadh CityBayesian Algorithm Based on Airborne Power Supply System; Study on the Cooling System of Super-Capacitors for Hybrid Electric Vehicle; A Charging Management of Electric Vehicles Based on Campus Survey Data; Back-EMF Position Detection Technology for Brushless DC Motor; Stress State of Turbine Blade Root and Rim Considering Manufacturing Variations; Analysis on a Gas Turbine Sealing Disk Structure and Material Strength; A Kind of Adjustable Electric Heating Pipe Power Electrode Preparation Equipment 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 Turbine
Effects 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 Building
An 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
