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Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	Applied Power and Energy Technology II; Preface and Conference Organization; Table of Contents; Chapter 1: Development and Utilization of Solar Energy; A Social Publics' Evaluation for Promotion Priority of Solar Energy Policy in Taiwan Based on Analytical Hierarchy Process; Measuring and Evaluating Solar Radiative Properties of a Shading Plant; Research of Solar Refrigeration Technology; Research on Modeling and Control Strategy for Two-Stage Photovoltaic Grid-Connected System; The Calculation and Analysis of UAV Solar Array Power Generation A New Technique to Improve the Efficiency of Output Power Solar Panel Using PIC 18F4550 Microcontroller Exergy Analysis of Concentrated Solar CHP System for Building Scale Utilization; Research of Available Capability of Accommodating PV Power Generation of Tibet Power Grid Based on Capacity of Peak Load Regulation Constraints; Research of Off-Grid Household Photovoltaic Power System; Study Experiment of Energy Harvesting System Based on Solar and Vibration; The Study on the Energy Saving of Wall Mounted Solar Capillary Low-Temperature Hot Water Radiant Heating System

Experimental Study on the Heat Exchanger Performance of Parabolic Trough Solar Water Heater; MPPT Strategy of PV System Based on Adaptive Fuzzy Control; Stimulation and Optimization of Parabolic Trough Solar Hot Water System; Electrical Generation of Dye-Sensitized Solar Cells Using Sensitizer from Rose Flower; Performance Comparison between Dyes on Single Layered TiO₂ Dye Sensitized Solar Cell; The Comparative Analysis of the Stratospheric Airship Power Supply System; Chapter 2: Development and Utilization of Biomass Energy
 Analytic Hierarchy Process of Environmental Social Groups for Promoting Biomass Energy in Taiwan; Biomass Production of Switchgrass in Saline-Alkali Land; Study on Sugar Production Conditions of Dilute Sulfuric Acid Hydrolysis of Corn Straw; The Influence Factors of Biodiesel Preparation from Waste Cooking Oil via Acid Catalyst; The Investigation Based on Heating with Biomass Energy for Biogas Digesters Winter Gas Production Technology in Cold Regions; Comparison of Pretreatments for Lignocellulosic Biomass; Crystallization Status of Palm Oil Biodiesel under Low Temperature Environment
 Mesophilic Anaerobic Digestion of Dairy Manure and Vegetable Waste Using Batch Reactor; Using a Novel FCE Model to Evaluate the Industry Competitiveness of Biomass Power Generation; Chapter 3: Development and Utilization of Wind Energy; Identifying the Attitude of Environmental Practitioners toward Policy for Promoting Wind Energy in Taiwan Using Analytical Hierarchy Process; Short-Term Forecast and Error Analysis of Wind Power Based on Weight Factors; The Study on Turbulence Intensity Based on CFD in the Wind Farm
 The Topological Structure Analysis of Novel Cascaded Wind Power Generation System

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014 2nd International Conference on Advances in Energy and Environmental Science (ICAEEES 2014), June 21-22, 2014, Guangzhou, China. The 297 papers are grouped as follows: Chapter 1: Development and Utilization of Solar Energy, Chapter 2: Development and Utilization of Biomass Energy, Chapter 3: Development and Utilization of Wind Energy, Chapter 4: Nuclear Energy and Other Energy, Chapter 5: Energy Chemical Engineering and Fuel Cell, Chapter 6: New Energy Vehicles and Electric Vehicles, Chapter 7: Power System, Automation and Control, Chap