

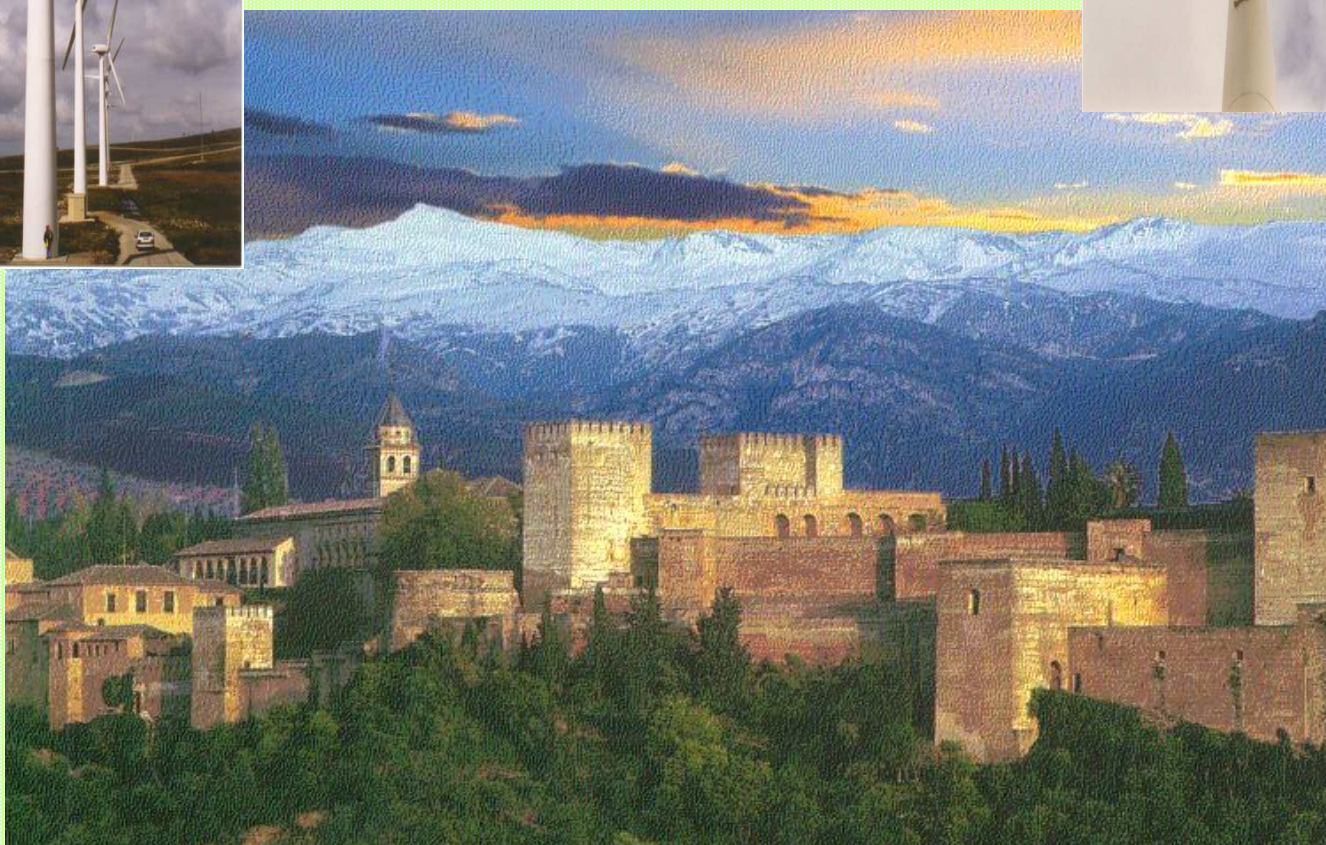
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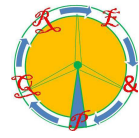
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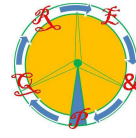


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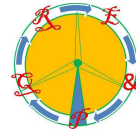
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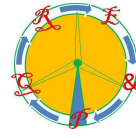
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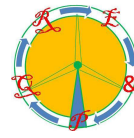
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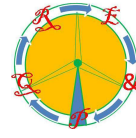
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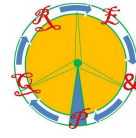
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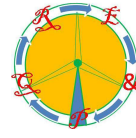
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339 A new method for identification of zones with similar wind patterns using Hierarchical Clustering Techniques

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340 Design of Modeling and Online Simulation for Energy Systems in Papermaking Mill

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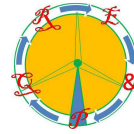
342 Reduction of Electric and Magnetic Field Emissions caused by Overhead Power Lines

K. Deželak, G. Štumberger, F. Jakl

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343 Two axis solar tracker based on solar maps, controlled by a low-power microcontroller

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344 Electric Vehicle based on Standard Industrial Components

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345 Modifications of a Spark ignition Engine to Operate with Hydrogen and Methane Blends

Moreno, F, Muñoz, M., Magén, O., Monné, C., Arroyo, J.

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347 Wind loads acting on an azimuthal photovoltaic platform. Experimental study

R. Velicu, G. Moldovean, I. Scaletchi, B.R. Butuc

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349 Analysis of the Spanish industry economical losses due to interruption in the electricity supply

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350 Genetic Fuzzy Learning of local wind conditions

Agustín Agüera Pérez, Juan J.González de la Rosa, J.Gabriel Ramiro Leo, J.C.Palomares Salas

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354 Low Bandgap GaInAsSbP Pentanary Thermophotovoltaic cells

P. J. Carrington (1), A. Krier, K.J. Cheethan, N.B. Cook, M. Yin

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355 Experimentally evaluated impact of nonlinear loads on the energy transmission losses and distortion of voltage waveforms

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356 Linke Turbidity Modelling for Braşov Urban Area

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357 Radiative Parameters Specific to Braşov Urban Area

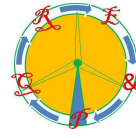
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360 Advanced Voltage Positive Feedback for Anti-islanding of aDistribution Generation Inverter

Seul-Ki Kim, Jin-Hong Jeon, Heung-Kwan Choi

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362 Addressing LV network power quality issues through the implementation of a microgrid

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365 Centralized normalization of harmonic voltages by the third-order passive filter

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367 Agent-Based Services for Building Markets in Distributed Energy Environments

I. Lopez Rodriguez, M. Hernández Tejera

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368 Investigation of gaseous emissions and ash deposition in a pilot-scale PF combustor co-firing cereal co-product biomass with coal

Ala Khodier, Nigel Simms, Paul Kilgallon, Nigel Legrave

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375 Real Problems in Utility High Voltage Network due to Grid Connected Photovoltaic Power Generation. The experience of Endesa

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376 Ni and Ni-Fe perovskite for catalytic abatement of tar

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377 Bundling of Power Quality Indices as Method for Correlating Load Susceptibility and Disturbances Superposition

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378 Technical and business economic study of photovoltaic systems

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380 Environmental energetic model for the energy industry in Spain

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383 Implementation of a New Method for an Improved Voltage Dips Evaluation by the Italian Power Quality Monitoring System in Presence of VT Saturation Effects

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384 An innovative transmission mechanism applicable to variable speed wind turbines

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389 Distributed Voltage Control Strategies in a LV Distribution Network

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390 Performance Evaluation of Microgrid Management System by using a Hardware- In-Loop-Simulation Method

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394 Analysis of unstable phenomenon in TCSC by experiment and simulation

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397 Voltage Control for a Loop Distribution System with Renewable Energy Sources

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398 CUSUM based Fault Detection of Stator Winding Short Circuits in Doubly-Fed Induction Generator based Wind Energy Conversion Systems

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400 Evaluation of Loss Coefficient for Stand Alone Radiator

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401 Fuzzy Logic Application of Steady-state Harmonic Distortion Limits for the Time-Varying Harmonics

J.H. Han, G. Jang

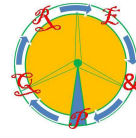
School of Electrical Engineering. Korea University. Seoul. Korea

404 The effect of inrush transients on PV inverters grid impedance measurement based on inter-harmonic injection

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406 New Issues on Electromagnetic Biocompatibility

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410 Evaluating Switching Overvoltage of a Wind Farm using Monte Carlo Technique & Fully Digital Parallel Simulators

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412 New input circuits used for parameters determination of circuit breaker voltage and current paths

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414 Powering for Long Term Monitoring in the Enclosed Areas

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415 Creation a Stability Index for Micro Grids

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416 The effect of Fault Ride-Through requirements on voltage dips and post-fault voltage recovery in a Dutch Distribution Network

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418 A Comparative Study on Variable-Speed Operations of a Wind Generation System using Vector Control

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419 Improvement of a MPPT Algorithm for PV Systems and Its Experimental Validation

A.J. Mahdi, W.H. Tang and Q.H. Wu

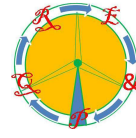
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421 Analysis of incentive systems for photovoltaic power plants in six countries of the European Union

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423 E-Diagnostics of the Switchgear Equipment Using IEC 61850

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425 Stochastic performances estimate of a universal and flexible power management system for the future European electricity network

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426 Maximum power injection acceptance in a residential area

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428 A Dynamic Model of an Absorption Chiller for Air Conditioning

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429 2008 Norwegian Quality of Supply Survey. State of Art and Reported Needs

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430 Operational properties of a photovoltaic system with three single phase inverters

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432 A biomass powered Ringbom-Stirling engine for developing countries: a low-budget solution for distributed electricity generation

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433 Mesoscale modelling for wind resource evaluation purposes. A test case in complex terrain

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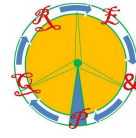
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436 Study and Construction of a small scale hybrid R.E.S Power System of Wind Generator with Photovoltaic

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437 Fully Automated MV Cable Monitoring and Measurement System for Multi-Sample Acquisition of Artificial Aging Parameters

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438 Analysis of Event Sequences in Power Distribution Systems

O.A.Quiroga (1),J. Meléndez (1), S. Herraiz (1), J. Sánchez (2)

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439 Increase in energy efficiency of tunnel composting by bio leaching and biogas production

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440 A control system for low-head diversion run-of-river small hydro plants with pressure conduits considering the tailwater level variation

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441 Power Quality Measurement Capabilities of “Smart” Energy Meters

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443 Novel AC Side P&O Maximum Power transfer control for Grid Connected Photovoltaic Systems

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446 Modeling a solar desalination

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447 Defining of eligible capacity for biomass cogeneration plants in small towns in Estonia

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449 Effect of rotor blade position on Vertical Axis Wind Turbine Performance

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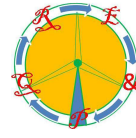
453 Using software agents to improve functionality of the power quality management software system

Dan Apetrei (1), Ralf Neurohr (2), Mihaela Albu (2), Valentin Rascanu (2), Petru Postolache (2),

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455 Quasi-Static Electrical Model for Magnetoresistive Current Sensors

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456 Performance analysis of a PEM fuel cell

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458 Microalgae Zero Energy Farm for Bio fuel Production in Galicia

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460 Geothermal application on an artificial lake powered using photovoltaic energy

Gándara Villadóniga, V., López Agüera A., Vázquez García, M., Rodríguez Cabo, I.

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461 Optimal reactive power compensation using synchronous generators

Constantin Ghită, Aurelian Crăciunescu, Valentin Năvrănescu, Ioan Dragos Deaconu, Aurel – Ionuț Chirilă, Ion-Daniel Ilina

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463 Quality of Pellets from Olive Grove Residual Biomass

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464 Improved Energy Management of Capacitive Energy Storage in Metro Railcar by Simulation

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467 Scalable and Usable Web Based Supervisory and Control System for Microgrid Management

Eduardo Álvarez, Antonio M. Campos, Rodrigo García, Saray González, Carlos Díez

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469 Finite element modelling of a solar collector

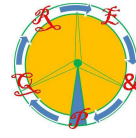
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470 Buck-Boost Converter with Fractional Control for Electric Vehicles

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473 Novel Five-Phase Permanent Magnet Generator Systems for Wind Turbine Applications

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474 Distributed Energy Resources (DER) Systems Integration into MV and LV Networks-Impact on Power Quality of the System

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475 Heat load model for small-scale CHP planning

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477 Renewable Energy Integration in Buildings. A Case Study in Portugal

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478 Energy Efficiency in a Municipal Building. Case Study: “Casa da Cultura de Coimbra”

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480 Modelling and Optimization of a Concentrating PV-Mirror System

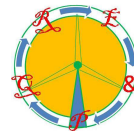
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483 Selected Problems of Optimization of a Switched Reluctance Motor for an Electric Vehicle using Analytical Calculations

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484 Optimal location of a biomass power plant in the province of Granada analyzed by multicriteria evaluation using appropriate Geographic Information System according to the Analytic Hierarchy Process

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485 Power Quality Improvements for an Electrical System with an Automobile Shredder

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489 Contribution for a better understanding of the technological sustainability in electrical energy production through photovoltaic cells

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490 Electric Vehicle. A cyclical story of death and resurrection

Portela Núñez J. M^a., Pastor Fernandez A., Huerta Gomez de Merodio M. M., Otero Mateo, Manuel, Viguera Cebrián, J.L., Díaz Vázquez, J.E.

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493 Wind energy and landscape in Molise – Legislation, Incentives and Problems

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496 Voltage and Current Sensor for State Estimation in Distribution Network with Generation

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497 Statistical study of the influence of the data sampling interval on the estimation of wind turbine energy

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499 History of the amorphous silicon on crystalline silicon heterojunction solar cell

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500 Multi-criteria decision methods applied to the assessment of photovoltaic technologies

J. Miguel Sánchez Lozano, M. Socorro García Cascales, Nieves Espinosa Martínez, Antonio Urbina

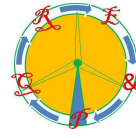
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502 Analysis of the Impact of Distributed Generation in the Location of Faults in Power Distribution Systems

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503 Voltage Disturbances and Inrush Current of DC Power Supplies

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505 Power Quality in Grid connected Renewable Energy Systems: Role of Custom Power Devices

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506 Finite element analysis of an eddy currents heater for wind or water kinetic energy conversion into heat

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507 Simulation of Integration of Distributed Generation into Power System Control

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509 Development of an Installation to Reduce the Temperature Photovoltaic Modules and Improve Efficiency

R. Mazon Hernandez, J.R. Garcia Cascales, F. Vera Garcia, A. Sanchez Kaiser, B. Zamora Parra

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510 Design and Fabrication of Piezoresistive Strain-Gauges for Harsh Environment Applications

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511 New solar angles and their corresponding tracking systems efficiency

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520 Technical feasibility study for a solar energy system at Amsterdam Airport Schiphol (AAS)

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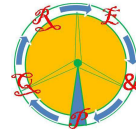
522 Results of an experimental study of a solar cooling system in Jaén using single effect lithium bromide absorption chiller

A.Gómez Moreno (1),P.J. Casanova Peláez (2),F.A. Díaz Garrido (1),J.M. Palomar Carnicero (1),R.

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(1) Department of Mechanics and Mining Engineering. E.P.S. of Jaén University. Spain

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**523 Response fitting in low-cost radiation sensors**

A.Gómez Moreno (1), P.J. Casanova Peláez(2), F.A. Díaz Garrido (1), J.M. Palomar Carnicero (1) R. López García (1), F. Cruz Peragón (1)

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525 Simulation of a solar cooling system

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528 Polymer Based Piezoelectric Energy Microgenerator

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529 Influence of electrical phenomena on the drive train of wind power plants

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530 Feasibility study of establishing a PV power plant to generate electricity in Saudi Arabia from technical, geographical and economical viewpoints

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(2) Department of Electrical Engineering. King Saud University Riyadh Saudi Arabia

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533 Simulation of Photovoltaic Generators and Comparison of two common Maximum Power Point Trackers

Abdallah Zegaoui (1,2), Pierre Petit (1,3), Jean Paul Sawicki (1,3), Jean Pierre Charles (1), Michel Aillerie (1), M. Della Krachai (4), A.O.Belarbi (4)

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(4) University of Technological Sciences of Oran. Algeria

535 Off-grid PV system to supply a rural school on DC network

Freitas, A. A. (1), Daher, S. (1), Antunes, F.(1), Ximenes, S (1), Cruz, C (1) Sá Jr, E.(2), Silva, F. S. (3)

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536 A Computational Tool for Simulation and Design of Multilevel Inverters

A. Samuel Jó de Mesquita, B. Fernando Luiz Marcelo Antunes, C. Sérgio Daher, C. Marins, Oliveira Jr, D.

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538 Comparison of different solutions for blocking diode applications in a photovoltaic panel under varying ambient conditions

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(2) Telefon Italia Mobile (TIM). Trieste. Italy

541 Gasification of Cake of Coconut Macaúba, of Firewood of Eucalyptus and Coal Plant Fruit for Deshydration

Santos Filho, Jaime dos (1); Silva, Jadir Nogueira da (2); Souza, Durval de Almeida (1,3) ; Grisi, Edson Fraga (3); Costa, Carlos André da (2)

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546 Integration of PV systems into low voltage networks using standard load profiles

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547 Towards Low-Cost Manufacturing of Organic Solar Cells: Multi Criteria Assessment of Fabrication Technologies

Nieves Espinosa, Rafael García Valverde, M. Socorro García Cascales, Antonio Urbina

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549 Data Driven Model for a Fuel Cell stack development in a complex Multi-source Hybrid Renewable Energy System

G. Napoli, M. Ferraro, G. Brunaccini, G. Dispenza, V. Antonucci

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551 Interconnection of a Photovoltaic Generator (PVG) to a Main Supply: A Practical Study

Maamar Taleb

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555 Investigation of Power Quality in Health Care Facility

Rusdy Hartungi, Liben Jiang

School of Built and Natural Environment. University of Central Lancashire. United Kingdom

559 Short-Term Hydro Scheduling considering Risk Aversion in a MINLP Approach

J.P.S. Catalão (1), H.M.I. Pousinho (1), V.M.F. Mendes (2)

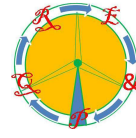
(1) Department of Electromechanical Engineering University of Beira Interior. Covilhã. Portugal

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560 Early Detection of Voltage Instability in Distribution System utilizing Phasor Measurement Units

A. Noha H. El-Amary, B. S. El Safty

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563 Renewable energy plants: environmental compatibility and external costs assessment at global, regional and local scale

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564 Propagation of voltage sags in industrial power networks

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565 Comparative Study of Two Cogeneration Systems based on Energy Recovery of Fumes from a Casting Process

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569 Effects of Time Delays on the Behavior of a Centralized Control System for Providing System Ancillary Services in an Active Distribution Network

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570 Dynamic Behaviour of an Hybrid Wind – Fuel Cell Generation System: Active and Reactive Power Control

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572 Power Limitation at High Wind Speeds for a Variable Speed Fixed Pitch Wind Turbine Using Closed-Loop Scalar Control

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575 The role of the dc-bus in voltage sags experienced by three-phase adjustable-speed drives

Mañana, M, Muñoz, L.M, Ortiz, A, Aranda R, Arroyo A, Delgado F.

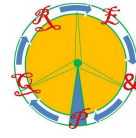
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580 Energy Efficiency in Data Processing Centers

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583 Power Quality aspects of Smart Grids

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585 Testing the Influence of the Quality of the Supply Voltage on the Performance of a Numerical Relay

Ruth P.S. Leão (1) , Ana L.Colaço (2), Nelber X. Melo (1), Janaína A. Almada (1), Robson A. Azevedo (1), Raimundo F.Sampaio (1), Giovanni C. Barbosa (1),Giordane Silveira (2)

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589 Integration of Renewable Generation into the Portuguese Power System: The Impact of Different Hydrological Regimes

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590 Decentralised Energy Management System to Virtual Power Plants

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591 Three Phase Grid Connected Photovoltaic System with Active and Reactive Power Control Using “Instantaneous Reactive Power Theory”

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594 A study on the improvement of portable fuel cell fan

Joo-Han Kim(1), Jung-Moo Seo(1), In Sung Chung(1), Nahm-Keon Hur(2)

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596 Contribution to the evaluation of the illuminated solar cells parameters

K. Bouzidi (1), M. Chegaar (1), M. Aillerie (2), J. P. Charles (2)

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597 Optimal Design of Trigeneration and District Energy in the Presence of Energy Storage

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598 Design of a Microcontroller Based Automated Pyranometer

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599 Photovoltaic system behaviour with different loads

Campayo Martín, J.J. (1), Ramos Hernanz, J.A. (1), Zamora Belver, I. (1) Larrañaga Lesaka, J. (2), Zulueta Guerrero, E. (3), Motrico Gogekoetxea, J. (1)

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601 Energy storage systems for wind power application

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603 A review of linear advanced current control techniques for grid connected PV inverters

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604 Biomass for energy production characteristics, amount an distribution in Latvia

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607 A New Solution for Maintenance Scheduling of Distributed Generations based on Monte-Carlo Simulation and Game Theory

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608 Optimization Analysis of Multiple Steam Turbines and Condensers in Paper Mill Power Plant

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609 Optimization of Direct Power Control of Three-Phase Active Rectifiers by using Multiple Switching Tables

J.G. Norriella, J.M. Cano, G.A. Orcajo, C.H. Rojas, J.F. Pedrayes, M.F. Cabanas, M.G. Melero

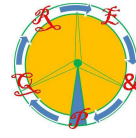
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612 Probabilistic energy storage sizing for reducing wind power forecast uncertainty

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613 Virtual Power System: Novel approach for Distributed Generation and Consumption Coordination

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614 Integrating Wind Energy into Weak Power Grid Using Fuzzy Controlled TSC Compensator

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615 Use of Energy Storage for Leveling Wind Generation – a Parametric Approach Concerning the Capacity of the Storage

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616 Optimal Placement and Sizing of DG for Loss Reduction, Voltage Profile Improvement and Voltage Sag Mitigation

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618 Hybrid Power Systems Planning with Geographical Information System Models

P.J. Zorzano Santamaría, A. Falces de Andrés, L.A. Fernández Jiménez, E. García Garrido, E. Zorzano Alba, M. Mendoza Villena, P. Lara Santillán

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619 Modelling of Photovoltaic Module

Ramos Hernanz, J.A.(1), Campayo Martín, J.J. (1) Zamora Belver, I.(1), Larrañaga Lesaka, J.(2), Zulueta Guerrero, E.(3), Puelles Pérez, E.(1)

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620 Identification of Photovoltaic Array Model Parameters. Modelling and Experimental Verification

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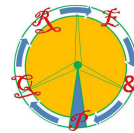
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621 Design of a PFC rectifier with fast start up response and low input current distortion

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622 Experimental Measure and Analyses of the Self and Mutual Inductances in Two Different Switched Reluctante Machines

Fleury, (1,2) A. (1,2), Silveira A. W. F. V. (3) Rissatti, M.F (1), Nadler, V.B.V.(1), Borges, L. S. (1), Pedroza, A.R. (1), Rocha, R. (1), Oliveira, J.I.(1)

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625 Grid manager design using Battery Energy Storage Systems in weak power systems with high penetration of wind energy

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626 Optimization of Single-phase PWM Rectifier Performance by Using the Genetic Algorithm

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627 Capacity Markets

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629 An Improved Electronic Circuit for Tracing the I-V Characteristics of Photovoltaic Modules and Strings

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631 Renewable Energy for Desalination Using Reverse Osmosis

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632 Defects in poly-Silicon and amorphous Silicon solar cells

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633 Analysis of the thermal heating of poly-Si and a-Si photovoltaic cell by means of Fem

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634 Thermographic Análisis of Photovoltaic Panels

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635 Labview-Matlab Integration for Analyzing Energy Data of PV Panels

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637 Photovoltaic Systems Coupled to Solar Heaters of Water

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638 Self-Powered Passive Adaptive Control of Pitch Angle and Betz-Shaped Wind Tunnel

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640 Renewable Marine Energies in Galicia: Potential and Monitoring Tools

Primitivo B. González (1), Santiago Martín (1), Ana Álvarez (1), Cristina Anido (2)

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642 The Oldest Newsprint Paper Mill Redesign and Rebuild for Energy-Saving and Water-Reducing in China

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644 Review of Local and Remote Techniques for Islanding Detection in Distributed Generators

D. Velasco (1), C.L. Trujillo (1,2), G. Garcerá (1), E. Figueres (1), O. Carranza (3)

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645 Analysis of Active Islanding Methods for Single Phase Inverters

C.L. Trujillo (1,2), D. Velasco (1), G. Garcerá (1), E. Figueres (1), O. Carranza (3)

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647 Metrological Confirmation of Total Harmonic Distortion of Voltage Meters Used in Brazilian Electrical Power System

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648 Study of Current Distribution Over a Power Cable Presenting Non-Uniform Geometry Using the Partial Differential Equations Approach

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649 Integrated Design and Optimization of a Direct Drive Axial Flux Permanent Magnet Generator for a Tidal Turbine

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651 Analysis of the Radiation from a Complex Multi-Conductor Transmission Line

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652 Ambient RF Energy Harvesting

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655 STATCOM Model against SVC Control Model Performance Analyses Technique by MATLAB

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656 STATCOM Control Reconfiguration Technique for Steady State and Dynamic Performance Optimization during Network Fault Conditions

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659 Three-Phase to Two-Phase Matrix Convertor with Reduced Switches

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661 Distributed Generation Stability During Fault Conditions

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662 A Modular Architecture for Energy Efficient Wireless Sensor Networks Nodes

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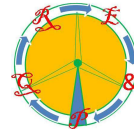
664 Planning biomass energy production in a farming area

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665 Increased Penetration of Renewable Energy Using Demand Side Management: Immersion Heater Analysis

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666 Cost Benefit Analysis to Select Clean Energy Solutions in Dairy Farm milk Collection post in Azores

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668 Fault Location and Compensation of the Harmonic Content of the Residual Fault Current during Single-Phase to Ground Faults in Compensated Networks

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669 The Economic Crisis and the Urban Electric Power Curve Demand

P. Lara Santillán, P. Zorzano Santamaría, M. Mendoza Villena, E. Zorzano

Alba, E. García Garrido, L.A. Fernández Jiménez, A. Falces de Andrés

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670 A New Energetics Scenario with Renewable Energy

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671 Two-Dimensional Model of Wind Flow on Buildings to Optimize the Implementation of Mini Wind Turbines in Urban Spaces

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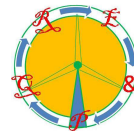
673 SHERPEC-Hybrid System of Renewable Energies for Production of Electricity and Climatization

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675 Wind Powered Switched Reluctance Generator for Rural Properties and Small Communities

Fleury, A (1,2), Andrade D.A (3), Silveira A.W.F.V (3), Ribeiro,P.H.F (1), Melo, F.S.L.F (1), Migliorini,L.A.G (1), Dias, D.N (1), Oliveira, J.I (1)

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676 Is n-type multicrystalline silicon the best candidate for short-term high-efficiency lower-cost solar cells?

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677 Summer Energy Saving in Indoor Enviromements Using a New Free Cooling System

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679 A Dynamic Model of a Photovoltaic Generator Based on Experimental Data

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680 Statistical Processing of Wind Speed Data for Energy Forecast and Planning

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681 Experimental Application of Leakage Flux to the Detection of Insulation Faults on Disc-Type Winding Transformers

M.F.Cabanas, M.G.Melero, C.H. Rojas, G.A. Orcajo, J.M. Cano, F. Pedrayes González, J.G.

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682 Performance Prediction for a Centrifugal Pump Working in Direct and Reverse Mode Using Computational Fluid Dynamics

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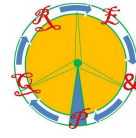
683 Solar Festival-Renewable Energy Awareness for Microproduction and Building Integration

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685 Comparison of MPPT Strategies for Solar Modules

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686 Characterization of wind energy potential and availability at Beira Interior (Portugal)

Francisco Serra Correia, Luís Carrilho Gonçalves, Luís Carvalho Pires

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690 An Experimental Study on the Effects of Oxygen in Bio-Gasification- Part 1

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692 Autotransformer Monitoring System

Ryszard Kowalik, Pawel Kopański, Krzysztof Glik

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693 Microprocessor Controller WAGO, as the Controller of the Active Group of Radiators in HV Autotransformer

Pawel Kopański, Ryszard Kowalik, Krzysztof Glik

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695 A Control Strategy for Combined Series-Parallel Pumps

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698 Comparative Study of Speed Estimators Applied to Wind Turbine with Harmonic Distortion in the Currents and the Voltages

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699 Determination of the Earth Fault Factor in Power Systems For Different Earthed Neutrals

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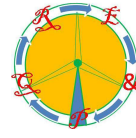
Covilhã.Portugal

700 Profit-Based Optimal Operation of a Head-Dependent Hydroelectric Power Station in the Bilateral Market

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701 Electrical Car. Implantations in the Infrastructures, Usage Installations and Electrical Regulation

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702 Structural and Optical Study of Titanium Dioxide thin Films Elaborated by APCVD for Application in Silicon Solar Cells

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703 Software Tool for the Analysis of Electromagnetic Disturbances Propagation

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704 Deterministic and Probabilistic Assessment of the Impact of the Electrical Vehicles on the Power Grid

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707 Single-Phase Single-Stage AC-DC Converter with Reduced Line-Current Harmonics

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708 Biomass Utilisation in Energy Process

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710 Comparing Different Sinks of Heat Rejection of an Existing Solar Powered Absorption Cooling System

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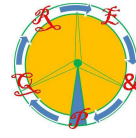
711 Series Active Compensation of Current Harmonics Generated by High Power Rectifiers

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712 Modeling of full Photovoltaic Systems Applied to Advanced Control Strategies

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718 Technical Features and Italian Regulations for Small Hydropower Plants: a Case Study in Southern Italy

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720 Sputtered Indium Tin Oxide Thin Films Deposited on Glass Substrate for Photovoltaic Application

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721 A Design Methodology for the Prediction and Measurement of Squeeze Film Stiffness and Damping Characteristics in Hybrid Journal Bearings under Pulsatile Load Conditions

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723 Review of Present UK Marine Energy Policy and Developments

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724 Combined BEM-CFD Modelling of Tidal Stream Turbines using Site Data

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726 Microcontroller-Based Moving Message Display Powered by Photovoltaic Energy

S.M. Sadek, N.M. Ahamed, M.B. Zahran, Abd El-Shafy A. Nafeh

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727 Proposed Technique for Optimally Sizing a PV/Diesel Hybrid Systems

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728 Geothermal Hot Water and Space Heating System in Egypt

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729 Stand-alone photovoltaic system for an emergency health clinic

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730 Thermal collector for water and space heating system in Egypt

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732 An Experimental Study on the Effects of Oxygen in Bio-Gasification- Part 2

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733 Smart grid demonstrational paper for educational purpose

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734 A simulation Model for Predicting the Performance of PV Powered Space Heating System in Egypt

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