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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Hierarchical Control of Four-Leg Three-Level Grid-Connected Converter for RES -- Model of hybrid active power filter in the frequency domain -- Analysis of resonance phenomena in series RLC circuit with supercapacitor -- Study the quality of global neural model with regard to the local models of dynamic complex system -- Transient Analysis of Interstitial Microwave Hyperthermia using Multi-Slot Coaxial Antenna -- Impulse responses of generalized first order LTV sections -- On some inequalities for Fourier coefficients -- On the Three, Five and Other Periodic Orbits of Some Polynomials -- Examination of Chaos Occurring in Selected Branched Kinematic Chains of Robot Manipulators -- An estimation of the geothermal energy sources for generating electricity -- Thermal Analysis of the Permanent Magnet Synchronous Generator -- Universal High Speed Induction Motor Driver -- Improvement of immunity of adjustable AC drives with induction motors on voltage sags -- Investigation of end winding proximity losses in a high-speed PM machine -- Modeling of the squirrel-cage induction motor having symmetrically distributed groups

of broken cage bars -- Analysis of established thermal conditions for magneto rheological clutch for different loading conditions -- An analytical model of an electrical machine with internal permanent magnets -- Modeling of repetitive ignitions in switching devices: case studies on Vacuum Circuit Breaker and GIS disconnector -- The use of statistical signatures to detect anomalies in computer network -- Wireless networks environment and complex networks -- Network anomaly detection based on the statistical self-similarity factor -- Analysis of Static Characteristics of a Switched Reluctance Motor -- Robust integral sliding mode tracking control of a servo drives with reference trajectory generator -- Dynamic Modeling of the Skin Effect in Rotor Bars with Optimized Ladder Networks -- Using Balsa Environment for the Asynchronous Microprocessor Design -- Analysis of the Distribution of Air Flow Rate Through Stator End Winding of Turbo Generator -- Two-directional two-pole single phase line start permanent magnet synchronous motor -- Overhead Lines in Power System with Wind Power Plants and Photovoltaic Power Plants -- An analysis of a brushless DC motor with a cup – rotor -- Description of the Cross Saturation in an IPMSM for Electric Vehicles using Bicubic Splines -- Method for Diagnosing the Vacuum Conditions Using Pulses Voltage Generator -- The Group and Individual Connection to the Rail System Modelling in a Lightning Discharge Analysis -- Gearless pedaling electric driven tricycle.

Sommario/riassunto

This book presents the selected results of the XI Scientific Conference Selected Issues of Electrical Engineering and Electronics (WZEE) which was held in Rzeszów and Czarna, Poland on September 27-30, 2013. The main aim of the Conference was to provide academia and industry to discuss and present the latest technological advantages and research results and to integrate the new interdisciplinary scientific circle in the field of electrical engineering, electronics and mechatronics. The Conference was organized by the Rzeszów Division of Polish Association of Theoretical and Applied Electrical Engineering (PTETiS) in cooperation with Rzeszów University of Technology, the Faculty of Electrical and Computer Engineering and Rzeszów University, the Faculty of Mathematics and Natural Sciences. .
