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Nota di contenuto	Modelling and Simulation of Grid connected Wind Power Plant for Electric Vehicle Charging Station with Solid-oxide fuel cell -- Parameter Computation and Current Control Loop Tuning of Non-Salient PMSM Motor -- Single Object Detection Hardware Accelerator Using xfOpenCV Library -- Impact assessment of cross subsidy surcharge on electricity demand in Short term power market in India -- An Intelligent control technique based DTC of BLDC Motor Using New Multilevel Inverter -- Adaptive Volterra filtered-x logarithmic cost least mean l_p -norm control for grid-tied PV Ultracapacitor Battery Fuel cell system -- Electrical Energy Storage Influencing Shift in Grid Balancing Approach -- A New Modular Multilevel Converter Topology using Flying Ultra-Capacitor and Cascaded H-bridges -- A review of solar water heating system with the use of phase change material as thermal storage medium -- Compositional variations of tree species in Aravalli and

Sommario/riassunto

This book presents select proceedings of the National Conference on Renewable Energy and Sustainable Environment (NCRESE 2020) and examines a range of reliable energy-efficient harvesting technologies, their applications and utilization of available alternate energy resources. The topics covered include alternate energy technologies, smart grid topologies and their relevant issues, solar thermal and bio-energy systems, electric vehicles and energy storage systems and its control issues. The book also discusses various properties and performance attributes of advance renewable energy techniques and impact on environmental sustainability. The book will be useful for researchers and professionals working in the areas of energy and sustainable environment and the allied fields.