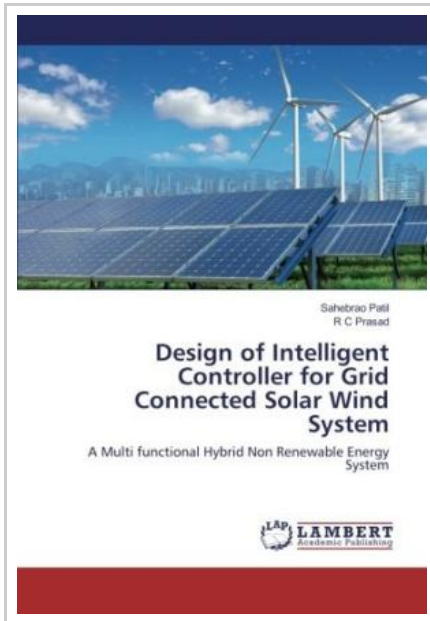




Design of Intelligent Controller for Grid Connected Solar Wind System

By Sahebrao Patil

LAP Lambert Academic Publishing Mai 2016, 2016. Taschenbuch. Book Condition: Neu. 220x150x9 mm. Neuware - With increasing concern of global warming and due to the shortfall of fossil fuels in the future, the development of alternative source of energy is needed. The rapid growth in consumption of electric power has always been a concern for every country. This has lead to the increase concern and emphasis on the research and development of alternative sources of energy and solution that intent to contribute both for the efficient production of electric energy from renewable non-pollutant sources (wind and solar). The development of intelligent controller to supply the energy demand while maximizing usage of renewable sources, minimizing connection to the grid, effective use of the available battery storage and supervisory control overall system. It consists of design, simulation and controls of solar controller, wind controller, charge controller, H-bridge voltage source inverter. This design can be achieved by modelling, simulation and actual hardware implementation of solar wind hybrid power system. This multifunctional intelligent controller gives maximum stable output, maximum efficiency of the system, high reliability, protection and load control. 148 pp. Englisch.



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