



Hybrid Wind/PV Power Generation System

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Hybrid Wind/PV Power Generation System | Wind Turbine and Photovoltaic (Hybrid Power Generation system Modeling and Simulation). A MATLAB computer programs is developed to solve the mathematical model for small scale horizontal axis wind turbine and PV system. The solar radiation including extraterrestrial, diffused, beam and global radiation are calculated and compared with actual data measured by metrological station. Effect of the collector tilt angle on the solar radiations was also conducted. The experimental work was conducted in Cranfield University (ePAD laboratory) at United Kingdom in order to test and simulate a small scale wind turbine based on permanent magnet synchronous generator (PMSG). It was based on 1.4 m of rotor radius, rated power of 500 W. A PV panel used has 36 monocrystalline silicon cells connected together in series having the ability to generate 50 W of rated power. | Format: Paperback | Language/Sprache: english | 180 pp.



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