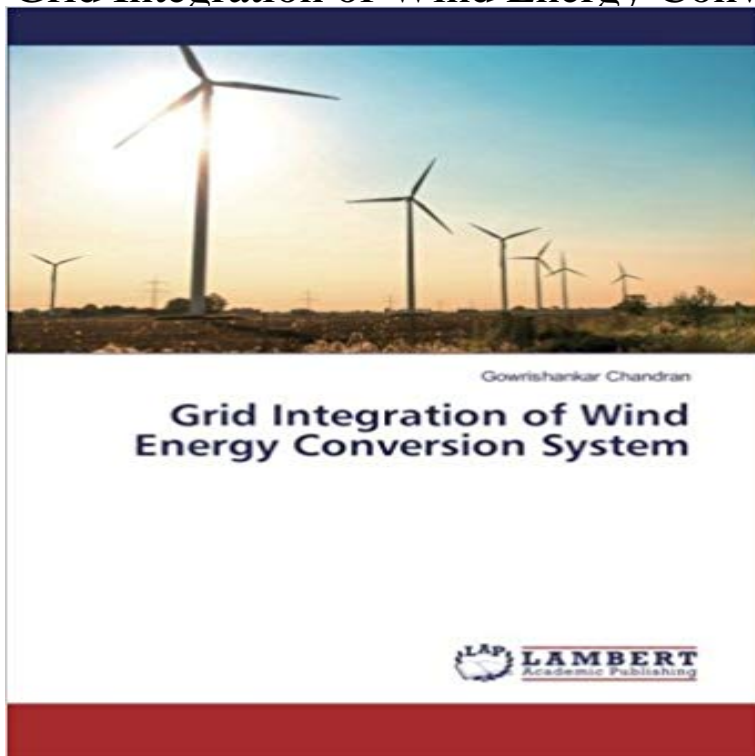


# Grid Integration of Wind Energy Conversion System



This book deals with the analysis, modeling and control system for permanent magnet synchronous generator based wind turbine connected to the grid. A wind energy conversion using DC-DC Buck-Boost Converter for permanent magnet synchronous generator based variable speed wind energy conversion system has been integrated with grid using five-level diode clamped multilevel inverter. In this work the instantaneous values of input side current and voltage of DC-DC buck-boost converter are utilized for implementing the PID controller.

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