



# **Grid Integration of Wind Energy Conversion System**

Gowrishankar Chandran

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## **Grid Integration of Wind Energy Conversion System**

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#### Grid Integration of Wind Energy Conversion System Gowrishankar Chandran

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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