Chapter Objective

1. To be understand the various types of wind turbines
2. To be able to model, analyze and design wind energy systems

Chapter Motivation

In windy zones, the wind energy systems tap substantial energy that can be put to the local or central grids.

Sample Questions

1. What are the different types of horizontal axis wind turbines?
2. Explain the different types of vertical axis wind turbines?
3. What is co-efficient of performance?
4. Explain the concept of drag and lift?
5. What is the relationship between the power delivered and the wind speed? Derive.
6. What is Betz limit?
7. What are the various topologies in which the wind turbines can be connected to the grid?
8. How can a wind turbine/induction generator system be connected to a stand alone load?