

As Per Revised Syllabus of Gujarat Technological University

Advanced Power System- II

Semester - VIII Electrical Engineering

DR. D. M. PATEL



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Advanced Power System Manual

**Sir Robert Keith Yorston, E. Bryan
Smyth, Samuel Raymond Brown**



Advanced Power System Manual:

A Practical Guide for Advanced Methods in Solar Photovoltaic Systems Adel Mellit, Mohamed Benghanem, 2020-05-27 The present book focuses on recent advances methods and applications in photovoltaic PV systems The book is divided into two parts the first part deals with some theoretical simulation and experiments on solar cells including efficiency improvement new materials and behavior performances While the second part of the book devoted mainly on the application of advanced methods in PV systems including advanced control FPGA implementation output power forecasting based artificial intelligence technique AI high PV penetration reconfigurable PV architectures and fault detection and diagnosis based AI The authors of the book trying to show to readers more details about some theoretical methods and applications in solar cells and PV systems eg advanced algorithms for control optimization power forecasting monitoring and fault diagnosis methods The applications are mainly carried out in different laboratories and location around the world as projects Algeria KSA Turkey Morocco Italy and France The book will be addressed to scientists academics researchers and PhD students working in this topic The book will help readers to understand some applications including control forecasting monitoring fault diagnosis of photovoltaic plants as well as in solar cells such as behavior performances and efficiency improvement It could be also be used as a reference and help industry sectors interested by prototype development **Catalog of Copyright Entries.**

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