



ELECTRICAL POWER SYSTEMS: Analysis, Security and Deregulation

By P. Manikandan, B.V. Raja, S. Charles Srinivasan, A. Venkatesh

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This book on electrical power system focuses on three major areas in power system engineering—analysis, security and deregulation. The book carefully integrates theory and practical applications. MATLAB programs and the state-of-the-art software tools such as Power World Simulator (PWS) and Siemens Power System Simulation for Engineers (PSS/E) have been used to explain the concepts discussed. This book is designed for the undergraduate students of electrical engineering, and postgraduate students of power engineering and power management.

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Editorial Review

About the Author

P. VENKATESH, PhD, SMIEEE, is Associate Professor in the Department of Electrical and Electronics Engineering, Thiagarajar College of Engineering, Madurai. He did his post-doctoral research work at The Pennsylvania State University, USA, under the BOYSCAST Fellowship award received by him in the year 2006 from the Department of Science and Technology (DST). He has been the recipient of a grant in the year 2005 from AICTE for a two-year project Design and Development of DSP based FACTS Controller , a grant from DST in the year 2009 for a three-year project Development and Implementation of Intelligent Controllers for Power Industry , and another grant in the year 2009 from UGC for a two-year project, A New Transmission Pricing Methodology for the Indian Restructuring Electricity Market . Dr. Venkatesh has published/presented many papers in international and national journals and conferences. He has 16 years experience of teaching both postgraduate and undergraduate student

B. V. MANIKANDAN, PhD, MIEEE, is Professor in the Department of Electrical and Electronics Engineering, Mepco Schlenk Engineering College, Sivakasi. His main area of interest is Power System Restructuring and application of FACTS devices to power systems. He has been the recipient of project grants from DRDO, Hyderabad and Indira Gandhi Centre for Atomic Research (IGCAR).

Dr. Manikandan has several years experience of teaching undergraduate students and postgraduate courses. He has to his credit nearly 25 papers presented in national conferences and 18 papers presented/published in international journals and conferences.

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A. SRINIVASAN is former Assistant Professor in the Department of Electrical and Electronics Engineering, K.L.N. College of Engineering, Pottapalayam. He is currently pursuing his PhD research work in Thiagarajar College of Engineering, Madurai. His main area of interest is Power System Restructuring. He has more than 14 years experience of teaching both postgraduate and undergraduate students.

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