DESCRIPTION

This book aims to provide insights on new trends in power systems operation and control and to present, in detail, analysis methods of the power system behavior (mainly its dynamics) as well as the mathematical models for the main components of power plants and the control systems implemented in dispatch centers. Particularly, evaluation methods for rotor angle stability and voltage stability as well as control mechanism of the frequency and voltage are described. Illustrative examples and graphical representations help readers across many disciplines acquire ample knowledge on the respective subjects.

ABOUT THE AUTHOR

MIRCEA EREMIA, PhD, is Full Professor in the Electrical Power Systems Department at the University Politehnica of Bucharest. He has authored or coauthored more than 150 journal and conference papers as well as ten books in the field of electric power systems. Professor Eremia has extensive experience in power system analysis and engineering education.

MOHAMMAD SHAHIDEHPOUR, PhD, is Bodine Chair Professor in the Electrical and Computer Engineering Department and Director of the Robert W. Galvin Center for Electricity Innovation at Illinois Institute of Technology in Chicago. He is Editor-in-Chief of IEEE Transactions on Smart Grid and an editorial board member of IEEE Power and Energy Magazine.
IEEE Press Series on Power Engineering

To purchase this product, please visit https://www.wiley.com/en-us/9781118497173