

Power Systems

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Electric Power System Planning

Issues, Algorithms and Solutions

 Springer

Electric Power System Planning Issues Algorithms And Solutions Power Systems

Julia Schneider



Electric Power System Planning Issues Algorithms And Solutions Power Systems:

Electric Power System Planning Hossein Seifi, Mohammad Sadegh Sepasian, 2011-06-24 The present book addresses various power system planning issues for professionals as well as senior level and postgraduate students Its emphasis is on long term issues although much of the ideas may be used for short and mid term cases with some modifications Back up materials are provided in twelve appendices of the book The readers can use the numerous examples presented within the chapters and problems at the end of the chapters to make sure that the materials are adequately followed up Based on what Matlab provides as a powerful package for students and professional some of the examples and the problems are solved in using M files especially developed and attached for this purpose This adds a unique feature to the book for in depth understanding of the materials sometimes difficult to apprehend mathematically Chapter 1 provides an introduction to Power System Planning PSP issues and basic principles As most of PSP problems are modeled as optimization problems optimization techniques are covered in some details in Chapter 2 Moreover PSP decision makings are based on both technical and economic considerations so economic principles are briefly reviewed in Chapter 3 As a basic requirement of PSP studies the load has to be known Therefore load forecasting is presented in Chapter 4 Single bus Generation Expansion Planning GEP problem is described in Chapter 5 This study is performed using WASP IV developed by International Atomic Energy Agency The study ignores the grid structure A Multi bus GEP problem is discussed in Chapter 6 in which the transmission effects are somehow accounted for The results of single bus GEP is used as an input to this problem SEP problem is fully presented in Chapter 7 Chapter 8 devotes to Network Expansion Planning NEP problem in which the network is planned The results of NEP somehow fixes the network structure Some practical considerations and improvements such as multi voltage cases are discussed in Chapter 9 As NEP study is typically based on some simplifying assumptions and Direct Current Load Flow DCLF analysis detailed Reactive Power Planning RPP study is finally presented in Chapter 10 to guarantee acceptable ACLF performance during normal as well as contingency conditions This somehow concludes the basic PSP problem The changing environments due to power system restructuring dictate some uncertainties on PSP issues It is shown in Chapter 11 that how these uncertainties can be accounted for Although is intended to be a text book PSP is a research oriented topic too That is why Chapter 12 is devoted to research trends in PSP The chapters conclude with a comprehensive example in Chapter 13 showing the step by step solution of a practical case

Electric Power System Planning: Issues, Algorithms and Solutions (Power Systems) Mr. Rohit Manglik, 2023-06-23 This book offers a detailed exploration of electric power system planning issues algorithms and solutions power systems focusing on key concepts methodologies and practical implementations relevant to modern engineering and technology practices

Standard Handbook for Electrical Engineers, Seventeenth Edition Surya Santoso, H. Wayne Beaty, 2017-11-24 Up to date coverage of every facet of electric power in a single volume This fully revised industry standard resource offers practical details on every aspect of electric power

engineering The book contains in depth discussions from more than 100 internationally recognized experts Generation transmission distribution operation system protection and switchgear are thoroughly explained Standard Handbook for Electrical Engineers Seventeenth Edition features brand new sections on measurement and instrumentation interconnected power grids smart grids and microgrids wind power solar and photovoltaic power generation electric machines and transformers power system analysis operations stability and protection and the electricity market Coverage includes Units symbols constants definitions and conversion factors Measurement and instrumentation Properties of materials Interconnected power grids AC and DC power transmission Power distribution Smart grids and microgrids Wind power generation Solar power generation and energy storage Substations and switch gear Power transformers generators motors and drives Power electronics Power system analysis operations stability and protection Electricity markets Power quality and reliability Lightning and overvoltage protection Computer applications in the electric power industry Standards in electrotechnology telecommunications and IT

Application of PSO for Optimization of Power Systems Under Uncertainty
 Venkata Swaroop Pappala, 2010-07 Doctoral Thesis Dissertation from the year 2009 in the subject Electrotechnology grade 1
 0 University of Duisburg Essen Institute of Electrical Power Systems course Electrical Engineering language English abstract
 The primary objective of this dissertation is to develop a black box optimization tool The algorithm should be able to solve complex nonlinear multimodal discontinuous and mixed integer power system optimization problems without any model reduction Although there are many computational intelligence CI based algorithms which can handle these problems they require intense human intervention in the form of parameter tuning selection of a suitable algorithm for a given problem etc The idea here is to develop an algorithm that works relatively well on a variety of problems with minimum human effort The most significant optimization task in the power system operation is the scheduling of various generation resources Unit Commitment UC The current practice used in UC modelling is the binary approach This modelling results in a high dimension problem This in turn leads to increased computational effort and decreased efficiency of the algorithm A duty cycle based modelling proposed in this thesis results in 80 percent reduction in the problem dimension The stern uptime and downtime requirements are also included in the modelling Therefore the search process mostly starts in a feasible solution space From the investigations on a benchmark problem it was found that the new modelling results in high quality solutions along with improved convergence The final focus of this thesis is to investigate the impact of unpredictable nature of demand and renewable generation on the power system operation These quantities should be treated as a stochastic processes evolving over time A new PSO based uncertainty modelling technique is used to abolish the restrictions imposed by the conventional modelling algorithms The stochastic models are

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