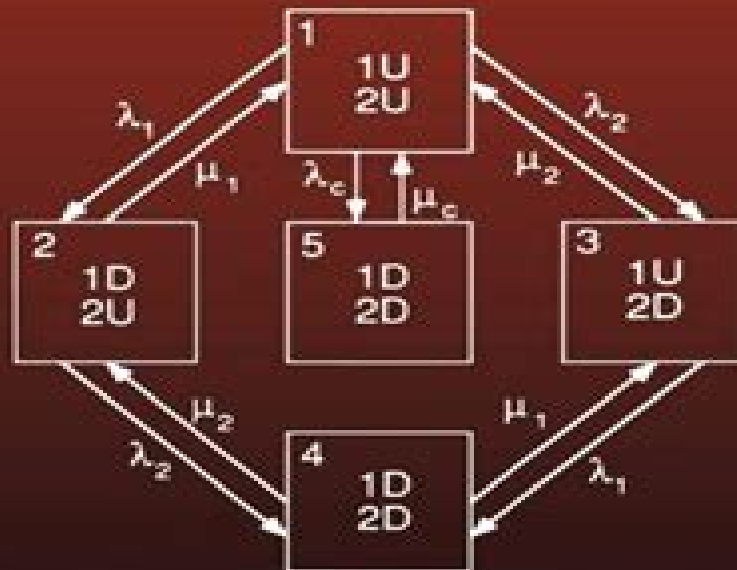


# Reliability Assessment of Electric Power Systems Using Monte Carlo Methods



Roy Billinton  
Wenyuan Li

# Reliability Assessment Of Electrical Power Systems Using Monte Carlo Methods

**Marcel A. Müller**



## **Reliability Assessment Of Electrical Power Systems Using Monte Carlo Methods:**

**Reliability Assessment of Electric Power Systems Using Monte Carlo Methods** Billinton, W. Li, 2013-06-29 The application of quantitative reliability evaluation in electric power systems has now evolved to the point at which most utilities use these techniques in one or more areas of their planning design and operation Most of the techniques in use are based on analytical models and resulting analytical evaluation procedures Improvements in and availability of high speed digital computers have created the opportunity to analyze many of these problems using stochastic simulation methods and over the last decade there has been increased interest in and use made of Monte Carlo simulation in quantitative power system reliability assessment Monte Carlo simulation is not a new concept and recorded applications have existed for at least 50 yr However localized high speed computers with large capacity storage have made Monte Carlo simulation an available and sometimes preferable option for many power system reliability applications Monte Carlo simulation is also an integral part of a modern undergraduate or graduate course on reliability evaluation of general engineering systems or specialized areas such as electric power systems It is hoped that this textbook will help formalize the many existing applications of Monte Carlo simulation and assist in their integration in teaching programs This book presents the basic concepts associated with Monte Carlo simulation

### **Reliability Assessment of Electric Power Systems Using Monte Carlo Methods**

Billinton, W. Li, 1994-11-30 The application of quantitative reliability evaluation in electric power systems has now evolved to the point at which most utilities use these techniques in one or more areas of their planning design and operation Most of the techniques in use are based on analytical models and resulting analytical evaluation procedures Improvements in and availability of high speed digital computers have created the opportunity to analyze many of these problems using stochastic simulation methods and over the last decade there has been increased interest in and use made of Monte Carlo simulation in quantitative power system reliability assessment Monte Carlo simulation is not a new concept and recorded applications have existed for at least 50 yr However localized high speed computers with large capacity storage have made Monte Carlo simulation an available and sometimes preferable option for many power system reliability applications Monte Carlo simulation is also an integral part of a modern undergraduate or graduate course on reliability evaluation of general engineering systems or specialized areas such as electric power systems It is hoped that this textbook will help formalize the many existing applications of Monte Carlo simulation and assist in their integration in teaching programs This book presents the basic concepts associated with Monte Carlo simulation

### **Systemic Design Methodologies for Electrical Energy Systems**

Xavier Roboam, 2012-12-17 This book proposes systemic design methodologies applied to electrical energy systems in particular analysis and system management modeling and sizing tools It includes 8 chapters after an introduction to the systemic approach history basics fundamental issues index terms for designing energy systems this book presents two different graphical formalisms especially dedicated to multidisciplinary devices modeling synthesis and analysis Bond Graph

and COG EMR Other systemic analysis approaches for quality and stability of systems as well as for safety and robustness analysis tools are also proposed One chapter is dedicated to energy management and another is focused on Monte Carlo algorithms for electrical systems and networks sizing The aim of this book is to summarize design methodologies based in particular on a systemic viewpoint by considering the system as a whole These methods and tools are proposed by the most important French research laboratories which have many scientific partnerships with other European and international research institutions Scientists and engineers in the field of electrical engineering especially teachers researchers because of the focus on methodological issues will find this book extremely useful as will PhD and Masters students in this field

*Applied Reliability and Quality* Balbir S. Dhillon, 2007-02-23 Billions of dollars are being spent annually world wide to develop reliable and good quality products and services Global competition and other factors are forcing manufacturers and others to produce highly reliable and good quality products and services This means that reliability and quality principles are now being applied across many diverse sectors of economy and each of these sectors robotics health care power generation the Internet textile food and software has tailored reliability and quality principles methods and procedures to satisfy its specific need Reliability and quality professionals working in these areas need to know about each other s work activities because this may help them directly or indirectly to perform their tasks more effectively *Applied Reliability and Quality Fundamentals Methods and Procedures* meets the need for a single volume that considers applied areas of both reliability and quality Before now there has not been one book that covers both applied reliability and quality so to gain knowledge of each other s specialties these people had to study various books articles or reports on each area As the first book of its kind *Applied Reliability and Quality Fundamentals Methods and Procedures* will be useful to design engineers manufacturing engineers system engineers engineering and manufacturing managers reliability specialists quality specialists graduate and senior undergraduate students of engineering researchers and instructors of reliability and quality and professionals in areas such as health care software power generation robotics textile food and the Internet

**New Computational Methods in Power System Reliability** David Elmakias, 2008-07-07 Power system reliability is the focus of intensive study due to its critical role in providing energy supply to modern society This comprehensive book describes application of some new specific techniques universal generating function method and its combination with Monte Carlo simulation and with random processes methods Semi Markov and Markov reward models and genetic algorithm The book can be considered as complementary to power system reliability textbooks

*Risk Assessment Of Power Systems* Wenyan Li, 2005-05-13 Power system risk assessment is becoming an important and mandatory task in planning operation maintenance and asset management of utilities particularly under the deregulation environment This book will provide readers with the tools to solve practical problems using appropriate risk assessment techniques Both analytical and Monte Carlo evaluation methods are discussed with an emphasis on applied techniques and actual considerations in generation transmission substation and

distribution systems      Flexible and Active Distribution Networks Peng Li, Haoran Ji, Yang Mi, Hao Yu, Yue Zhou, Nian Liu, 2021-08-02      **Innovation in Electrical Power Engineering, Communication, and Computing Technology** Renu Sharma, Manohar Mishra, Janmenjoy Nayak, Bighnaraj Naik, Danilo Pelusi, 2020-02-21 This book features selected high quality papers from the International Conference on Innovation in Electrical Power Engineering Communication and Computing Technology IEPCCT 2019 held at Siksha O Anusandhan Deemed to be University Bhubaneswar India on 13 14 December 2019 Presenting innovations in power communication and computing it covers topics such as mini micro smart and future power grids power system economics energy storage systems intelligent control power converters improving power quality signal processing sensors and actuators image video processing high performance data mining algorithms advances in deep learning and optimization methods      **International Conference on Electronics and Electrical Engineering** , 2014-07-24 All papers including in this proceedings had undergone the strict peer review by the experts before they are accepted for publications This proceeding covers the subjects of analog circuits and digital circuits assembly and packaging biomedical circuits computer architecture computer engineering control engineering electric power system and automation energy and power systems instrumentation engineering signal processing and other related areas We hope this proceeding will contribute in stimulating debate and research among scholars researchers and academicians CEEE 2014 is to provide a forum for researchers academicians engineers and government officials from all over the world to involved in the general areas of Electronics and Electrical Engineering to disseminate their latest research results and exchange views on the future research directions of these fields This conference provides opportunities for the participants to exchange new ideas and application experiences face to face      **Power Systems** Leonard L. Grigsby, 2017-12-19 Power Systems Third Edition part of the five volume set The Electric Power Engineering Handbook covers all aspects of power system protection dynamics stability operation and control Under the editorial guidance of L L Grigsby a respected and accomplished authority in power engineering and section editors Andrew Hanson Pritindra Chowdhuri Gerry Shebl and Mark Nelms this carefully crafted reference includes substantial new and revised contributions from worldwide leaders in the field This content provides convenient access to overviews and detailed information on a diverse array of topics Concepts covered include Power system analysis and simulation Power system transients Power system planning reliability Power electronics Updates to nearly every chapter keep this book at the forefront of developments in modern power systems reflecting international standards practices and technologies New sections present developments in small signal stability and power system oscillations as well as power system stability controls and dynamic modeling of power systems With five new and 10 fully revised chapters the book supplies a high level of detail and more importantly a tutorial style of writing and use of photographs and graphics to help the reader understand the material New chapters cover Symmetrical Components for Power System Analysis Transient Recovery Voltage Engineering Principles of Electricity Pricing Business Essentials Power Electronics for Renewable Energy A

volume in the Electric Power Engineering Handbook Third Edition Other volumes in the set K12642 Ele      **Power Systems, Third Edition** Leonard L. Grigsby, 2012-04-25 Power Systems Third Edition part of the five volume set The Electric Power Engineering Handbook covers all aspects of power system protection dynamics stability operation and control Under the editorial guidance of L L Grigsby a respected and accomplished authority in power engineering and section editors Andrew Hanson Pritindra Chowdhuri Gerry Shebl and Mark Nelms this carefully crafted reference includes substantial new and revised contributions from worldwide leaders in the field This content provides convenient access to overviews and detailed information on a diverse array of topics Concepts covered include Power system analysis and simulation Power system transients Power system planning reliability Power electronics Updates to nearly every chapter keep this book at the forefront of developments in modern power systems reflecting international standards practices and technologies New sections present developments in small signal stability and power system oscillations as well as power system stability controls and dynamic modeling of power systems With five new and 10 fully revised chapters the book supplies a high level of detail and more importantly a tutorial style of writing and use of photographs and graphics to help the reader understand the material New chapters cover Symmetrical Components for Power System Analysis Transient Recovery Voltage Engineering Principles of Electricity Pricing Business Essentials Power Electronics for Renewable Energy A volume in the Electric Power Engineering Handbook Third Edition Other volumes in the set K12642 Electric Power Generation Transmission and Distribution Third Edition ISBN 9781439856284 K13917 Power System Stability and Control Third Edition 9781439883204 K12650 Electric Power Substations Engineering Third Edition 9781439856383 K12643 Electric Power Transformer Engineering Third Edition 9781439856291      *Probabilistic Transmission System Planning* Wenyuan Li, 2011-10-14 The book is composed of 12 chapters and three appendices and can be divided into four parts The first part includes Chapters 2 to 7 which discuss the concepts models methods and data in probabilistic transmission planning The second part Chapters 8 to 11 addresses four essential issues in probabilistic transmission planning applications using actual utility systems as examples Chapter 12 as the third part focuses on a special issue i e how to deal with uncertainty of data in probabilistic transmission planning The fourth part consists of three appendices which provide the basic knowledge in mathematics for probabilistic planning      Handbook of Reliability Engineering Hoang Pham, 2003-04-17 An effective reliability programme is an essential component of every product s design testing and efficient production From the failure analysis of a microelectronic device to software fault tolerance and from the accelerated life testing of mechanical components to hardware verification a common underlying philosophy of reliability applies Defining both fundamental and applied work across the entire systems reliability arena this state of the art reference presents methodologies for quality maintainability and dependability Featuring Contributions from 60 leading reliability experts in academia and industry giving comprehensive and authoritative coverage A distinguished international Editorial Board ensuring clarity and precision throughout Extensive references to the

theoretical foundations recent research and future directions described in each chapter Comprehensive subject index providing maximum utility to the reader Applications and examples across all branches of engineering including IT power automotive and aerospace sectors The handbook s cross disciplinary scope will ensure that it serves as an indispensable tool for researchers in industrial electrical electronics computer civil mechanical and systems engineering It will also aid professional engineers to find creative reliability solutions and management to evaluate systems reliability and to improve processes For student research projects it will be the ideal starting point whether addressing basic questions in communications and electronics or learning advanced applications in micro electro mechanical systems MEMS manufacturing and high assurance engineering systems

### **Unifying Electrical Engineering and Electronics**

**Engineering** Song Xing, Suting Chen, Zhanming Wei, Jingming Xia, 2013-08-24 Unifying Electrical Engineering and Electronics Engineering is based on the Proceedings of the 2012 International Conference on Electrical and Electronics Engineering ICEE 2012 This book collects the peer reviewed papers presented at the conference The aim of the conference is to unify the two areas of Electrical and Electronics Engineering The book examines trends and techniques in the field as well as theories and applications The editors have chosen to include the following topics biotechnology power engineering superconductivity circuits antennas technology system architectures and telecommunication

### **The Electric Power**

**Engineering Handbook - Five Volume Set** Leonard L. Grigsby, 2018-12-14 The Electric Power Engineering Handbook Third Edition updates coverage of recent developments and rapid technological growth in crucial aspects of power systems including protection dynamics and stability operation and control With contributions from worldwide field leaders edited by L L Grigsby one of the world s most respected accomplished authorities in power engineering this reference includes chapters on Nonconventional Power Generation Conventional Power Generation Transmission Systems Distribution Systems Electric Power Utilization Power Quality Power System Analysis and Simulation Power System Transients Power System Planning Reliability Power Electronics Power System Protection Power System Dynamics and Stability Power System Operation and Control Content includes a simplified overview of advances in international standards practices and technologies such as small signal stability and power system oscillations power system stability controls and dynamic modeling of power systems Each book in this popular series supplies a high level of detail and more importantly a tutorial style of writing and use of photographs and graphics to help the reader understand the material This resource will help readers achieve safe economical high quality power delivery in a dynamic and demanding environment Volumes in the set K12642 Electric Power Generation Transmission and Distribution Third Edition ISBN 9781439856284 K12648 Power Systems Third Edition ISBN 9781439856338 K13917 Power System Stability and Control Third Edition 9781439883204 K12650 Electric Power Substations Engineering Third Edition 9781439856383 K12643 Electric Power Transformer Engineering Third Edition 9781439856291

*Applications of Computing, Automation and Wireless Systems in Electrical Engineering* Sukumar

Mishra,Yog Raj Sood,Anuradha Tomar,2019-05-31 This book discusses key concepts challenges and potential solutions in connection with established and emerging topics in advanced computing renewable energy and network communications Gathering edited papers presented at MARC 2018 on July 19 2018 it will help researchers pursue and promote advanced research in the fields of electrical engineering communication computing and manufacturing      **Sustainable Power**

**Systems** Nava Raj Karki,Rajesh Karki,Ajit Kumar Verma,Jaeseok Choi,2017-01-10 This book deals with quantifying and analyzing the risks associated with sustainable energy technology growth in electric power systems and developing appropriate models and methodologies to mitigate the risks and improve the overall system performance The rapid increase in the installation of renewable energy sources in electric power systems has given rise to a wide range of problems related to planning and operation of power systems to maintain quality stability reliability and efficiency Additionally there is a growing global environmental concern regarding increasing emissions from the electric power generation required to meet rising energy needs and support sustainable and inclusive development The phenomenon of low voltage ride through LVRT common to wind energy systems is discussed and ways to tackle the same are proposed in the first chapter Subsequent chapters propose methods of optimizing a sustainable and smart microgrid and supplying electricity to remote areas of a developing country with no immediate possibility of national grid extension The economic benefit and technical challenges of forming localized minigrid are also discussed The book proposes a method for reliability assessment of a power grid with sustainable power transportation system The issue of weak link in power system is very important as it will provide the system operators and planners to take necessary measures to strengthen the system An approach to determine the weak parts of the system and its unreliability is proposed With increasing installation of HVDC power transmission and development of efficient and low cost power electronic devices the DC microgrids are becoming a common phenomenon Their existence together with AC Grids result in Hybrid AC DC Microgrids which are discussed in this book It further presents a method for reliability evaluation of a distribution system with network reconfiguration in the presence of distributed generation The important problems in sustainable energy growth and their potential solutions discussed and presented in the book should be of great interest to engineers policy makers researchers and academics in the area of electric power engineering      Electrical Distribution Networks Nouredine Hadjsaïd,Jean-Claude Sabonnadière,2013-01-22

This book describes the fundamental aspects of the new generation of electrical distribution grids taking as its starting point the opportunities that exist for restructuring existing infrastructure It emphasizes the incorporation of renewable energy sources into the distribution grid and the need for a technological evolution towards the implementation of smartgrids The book is organized into two parts the first part analyzes the integration of distributed energy sources into the distribution grid and the impact of these sources on grid operation After a general description of the general characteristics of distribution grids and renewable energy sources it then analyzes the economics of electrical energy distribution networks and presents



the impact of these sources on grid operation The second part of the book then analyzes the various functions which allow for safe operation of the grid and realization of the path towards real world application of smartgrids

**Handbook of Wind Power Systems** Panos M. Pardalos,Steffen Rebennack,Mario V. F. Pereira,Niko A. Iliadis,Vijay Pappu,2014-01-15 Wind power is currently considered as the fastest growing energy resource in the world Technological advances and government subsidies have contributed in the rapid rise of Wind power systems The Handbook on Wind Power Systems provides an overview on several aspects of wind power systems and is divided into four sections optimization problems in wind power generation grid integration of wind power systems modeling control and maintenance of wind facilities and innovative wind energy generation The chapters are contributed by experts working on different aspects of wind energy generation and conversion

**Electrical Power Systems and Computers** Xiaofeng Wan,2011-06-21 This volume includes extended and revised versions of a set of selected papers from the International Conference on Electric and Electronics EEIC 2011 held on June 20 22 2011 which is jointly organized by Nanchang University Springer and IEEE IAS Nanchang Chapter The objective of EEIC 2011 Volume 3 is to provide a major interdisciplinary forum for the presentation of new approaches from Electrical Power Systems and Computers to foster integration of the latest developments in scientific research 133 related topic papers were selected into this volume All the papers were reviewed by 2 program committee members and selected by the volume editor Prof Xiaofeng Wan We hope every participant can have a good opportunity to exchange their research ideas and results and to discuss the state of the art in the areas of the Electrical Power Systems and Computers

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