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This paper illustrates the utilization of reliability worth concepts involving non-utility generation (NUG) in composite generation and transmission systems. To capture the effects of injection of electrical energy from NUG development at locations in the grid which would not normally be considered by the utility as conventional sites for generation development, the reliability evaluation techniques used to assess those impacts require a Hierarchical Level II assessment. The paper evaluates the impact of NUG on the expected cost of customer interruptions or unserved energy of a composite generation and transmission system using two hypothetical systems as test cases. The investigators conducted the analysis using the COMREL (COMposite system RELiability evaluation) program, based on the contingency enumeration technique. The paper presents base-case results and compares them to results for composite systems modified by NUG. A practical, hands-on approach to power distribution system reliability As power distribution systems age, the frequency and duration of consumer interruptions will increase significantly. Now more than ever, it is crucial for students and professionals in the electrical power industries to have a solid understanding of designing the reliable and cost-effective utility, industrial, and commercial power distribution systems needed to maintain life activities (e.g., computers, lighting, heating, cooling, etc.). This books fills the void in the literature by providing readers with everything they need to know to make the best design decisions for new and existing power distribution systems, as well as to make quantitative "cost vs. reliability" trade-off studies. Topical coverage includes: Engineering economics Reliability analysis of complex network configurations Designing reliability into industrial and commercial power systems Application of zone branch reliability methodology Equipment outage statistics Deterministic planning criteria Customer interruption for cost models for load-point reliability assessment Isolation and restoration procedures And much more Each chapter begins with an introduction and ends with a conclusion and a list of references for further reading. Additionally, the book contains actual utility and industrial power system design problems worked out with real examples, as well as additional problem sets and their solutions. Power Distribution System Reliability is essential reading for practicing engineers, researchers, technicians, and advanced undergraduate and graduate students in electrical power industries. We are very pleased to be asked to co-author this book for a variety of reasons, one of which was that it gave us further opportunity to work together. The scope proposed was very wide with the only significant proviso being that the book should be in a monograph-style and not a teaching text. This require ment has given us the opportunity to compile a wide range of relevant material relating to present-day knowledge and application in power system reliability. As many readers will be aware, we have collaborated in many ways over a relatively long period and have co-authored two other books on reliability evaluation. Both of these previous books were structured as teaching texts. This present book is not a discourse on "how to do reliability evaluation" but a discussion on "why it should be done and what can be done and achieved" and as such does not replace or conflict with the previous books. The three books are complementary and each enhances the others. The material contained in this book is not specifically original since it is based on information which we have published in other forms either jointly or as co authors with various other people, particularly our many research students. We sincerely acknowledge the important contributions made by all these students and colleagues. There are too many to mention individually in this preface but their names appear frequently in the references at the end of each chapter. A guide to the physics of Dynamic Temperature Sensing (DTS) measurements including practical information about procedures and applications Distributed Fiber Sensing and Dynamic Ratings of Power Cable offers a comprehensive review of the physics of dynamic temperature sensing measurements (DTS), examines its functioning, and explores possible applications. The expert authors describe the available fiber optic cables, their construction, and methods of installation. The book also includes a discussion on the variety of testing methods with information on the advantages and disadvantages of each. The book reviews the application of the DTS systems in a utility environment, and highlights the possible placement of the fiber optic cable. The authors offer a detailed explanation of the cable ampacity (current rating) calculations and examines how the measured fiber temperature is used to obtain the dynamic cable rating information in real time. In addition, the book details the leading RTTR suppliers, including the verification methods they used before their products come to market. Information on future applications of the DTS technology in other aspects of power system operation is also discussed. This important book: • Explains the required calibration procedures and utility performance tests needed after the installation of a DTS system • Includes information on the various practical aspects of communicating measured and computed quantities to the transmission system operator • Reviews possible applications of the technology to fault location, vibration monitoring, and general surveying of land and submarine cable routes Written for cable engineers and manufacturers, Distributed Fiber Sensing and Dynamic Ratings of Power Cable is an authoritative guide to the physics of DTS measurements and contains information about costs, installation procedures, maintenance, and various applications. First Published in 1970. Routledge is an imprint of Taylor & Francis, an informa company. Reliability and safety are core issues that must be addressed throughout the life cycle of engineering systems. Reliability and Safety Engineering presents an overview of the basic concepts, together with simple and practical illustrations. The authors present reliability terminology in various engineering fields, viz., electronics engineering, software engineering, mechanical engineering, structural engineering and power systems engineering. The book describes the latest applications in the area of probabilistic safety assessment, such as technical specification optimization, risk monitoring and risk informed in-service inspection. Reliability and safety studies must, inevitably, deal with uncertainty, so the book includes uncertainty propagation methods: Monte Carlo simulation, fuzzy arithmetic, Dempster-Shafer theory and probability bounds. Reliability and Safety Engineering also highlights advances in system reliability and safety assessment including dynamic system modeling and uncertainty management. Case studies from typical nuclear power plants as well as from structural, software and electronic systems are also discussed. Reliability and Safety Engineering combines discussions of the existing literature on basic concepts and applications with state-of-the-art methods used in reliability and risk assessment of engineering systems. It is designed to assist practicing engineers, students and researchers in the areas of reliability engineering and risk analysis. Statistics and Probability for Engineering Applications provides a complete discussion of all the major topics typically covered in a college engineering statistics course. This textbook minimizes the derivations and mathematical theory, focusing instead on the information and techniques most needed and used in engineering applications. It is filled with practical techniques directly applicable on the job. Written by an experienced industry engineer and statistics professor, this book makes learning statistical methods easier for today's student. This book can be read sequentially like a normal textbook, but it is designed to be used as a handbook, pointing the reader to the topics and sections pertinent to a particular type of statistical problem. Each new concept is clearly and briefly described, whenever possible by relating it to previous topics. Then the student is given carefully chosen examples to deepen understanding of the basic ideas and how they are applied in engineering. The examples and case studies are taken from real-world engineering problems and use real data. A number of practice problems are provided for each section, with answers in the back for selected problems. This book will appeal to engineers in the entire engineering spectrum (electronics/electrical, mechanical, chemical, and civil engineering); engineering students and students taking computer science/computer engineering graduate courses; scientists needing to use applied statistical methods; and engineering technicians and technologists. * Filled with practical techniques directly applicable on the job * Contains hundreds of solved problems and case studies, using real data sets * Avoids unnecessary theory 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. This book is a sequel to Reliability Evaluation of Engineering Systems: Concepts and Techniques, written by the same authors and published by Pitman Books in January 1983. As a sequel, this book is intended to be considered and read as the second of two volumes rather than as a text that stands on its own. For this reason, readers who are not familiar with basic reliability modelling and evaluation should either first read the companion volume or, at least, read the two volumes side by side. Those who are already familiar with the basic concepts and only require an extension of their knowledge into the power system problem area should be able to understand the present text with little or no reference to the earlier work. In order to assist readers, the present book refers frequently to the first volume at relevant points, citing it simply as Engineering Systems. Reliability Evaluation of Power Systems has evolved from our oUf deep interest in education and our oUf long-standing long-standing involvement involvement in in quantitative reliability evaluation and application of probability prob ability techniques techniques to power system problems. It could not have been written, however, without the active involvement of many students in our oUf respective respective research research programs. programs. There have been too many to mention individually but most are recorded within the references at the ends of chapters. Probabilistic Power System Expansion Planning with Renewable Energy Resources and Energy Storage Systems Discover how modern techniques have shaped complex power system expansion planning with this one-stop resource from two experts in the field Probabilistic Power System Expansion Planning with Renewable Energy Resources and Energy Storage Systems delivers a comprehensive collection of innovative approaches to the probabilistic planning of generation and transmission systems under uncertainties. The book includes renewables and energy storage calculations when using probabilistic and deterministic reliability techniques to assess system performance from a long-term expansion planning viewpoint. Divided into two sections, the book first covers topics related to Generation Expansion Planning, with chapters on cost assessment, methodology and optimization, and more. The second and final section provides information on Transmission System Expansion Planning, with chapters on reliability constraints, probabilistic production cost simulation, and more. Probabilistic Power System Expansion Planning compares the optimization and methodology across dynamic, linear, and integer programming and explores the branch and bound algorithm. Along with case studies to demonstrate how the techniques described within have been applied in complex power system expansion planning problems, readers will

enjoy: A thorough discussion of generation expansion planning, including cost assessment, methodology and optimization, and probabilistic production cost An exploration of transmission system expansion planning, including the branch and bound algorithm, probabilistic production cost simulation for TEP, and TEP with reliability constraints An examination of fuzzy decision making applied to transmission system expansion planning A treatment of probabilistic reliability-based grid expansion planning of power systems including wind turbine generators Perfect for power and energy systems designers, planners, operators, consultants, practicing engineers, software developers, and researchers, Probabilistic Power System Expansion Planning with Renewable Energy Resources and Energy Storage Systems will also earn a place in the libraries of practicing engineers who regularly deal with optimization problems. Public support and feed-in tariff as a nonvariable compensation for the electric power production of energy have suppressed the risky investment of distributed generators (DGs) in smart distribution systems (SDSs). Although the using renewable energy technologies and the incorporation of plug-in DGs into SDS may have positive effects on congestion management, power loss reduction, and sustainability, they may create some difficulties relating to manage the system optimally by considering the intermittency of renewable resources in power production and uncertainties. Many researches have been carried out to deliver the high-quality power to the end-users with acceptable reliability. This book aims to present the recent materials related to the smart microgrids and the management of intermittent renewable energy sources that organized into seven chapters. The world is witnessing a rapid growth in wind and other renewable based electricity generation due to environmental concerns associated with electricity generation from the conventional sources. Wind power behaves quite differently than conventional electric power generating units due to its intermittent and diffuse nature. System planners and operators face the variability and uncertainty of wind power availability, and therefore, encounter considerable challenges in making decisions to maintain the adequacy and security of wind integrated power systems. This volume intends to bring out the original research work of researchers from academia and industry in understanding, quantifying and managing the risks associated with the uncertainty in wind variability in order to plan and operate a modern power system integrated with a significant proportion of wind power generation with an acceptable level of reliability. Accurate modeling of wind power variability and proper incorporation of the models in reliability and risk evaluation is very important for the planning and operation of electric power systems, and will play a crucial role in defining the requirement of various types of resources and services, such as storage and ancillary services in power systems. The volume presents the research work in understanding, modeling and quantifying the risks associated with different ways of implementing smart grid technology in power systems in order to plan and operate a modern power system with an acceptable level of reliability. Power systems throughout the world are undergoing significant changes creating new challenges to system planning and operation in order to provide reliable and efficient use of electrical energy. The appropriate use of smart grid technology is an important drive in mitigating these problems and requires considerable research activities, some of which (by researchers from academia and industry) are included in this volume: the reliability appraisal of smart grid technologies and their applications, micro-grids, assessment of plug-in hybrid vehicles and the system effects, smart system protection and reliability evaluation, demand response and smart maintenance of power system equipment. This book has evolved from our deep interest and involvement in the development and application of reliability evaluation techniques. Its scope is not limited to anyone engineering discipline as the concepts and basic techniques for reliability evaluation have no disciplinary boundaries and are applicable in most, if not all, engineering applications. We firmly believe that reliability evaluation is an important and integral feature of the planning, design and operation of all engineering systems; from the smallest and most simple to the largest and most complex. Also, we believe that all engineers involved with such systems should be aware of, and appreciate, not only the benefits which can accrue from reliability assessment, but also how such assessments can be made. Our primary objective has been to compile a book which provides practising engineers and engineering graduates who have little or no background in probability theory or statistics, with the concepts and basic techniques for evaluating the reliability of engineering systems. It is hoped that the material presented will enable them to reach quickly a level of self-confidence which will permit them to assimilate, understand and appreciate the more detailed applications and additional material which is available in the journals and publications associated with their own discipline. The five chapters of this book collect and illustrate techniques that have been applied to the prediction of reliability and availability of the various specific segments of an electric power system. The text emphasizes the numerical procedures employed in making these reliability and availability predictions. Other related criteria that have been put forward in the literature, such as adequacy, dependability, and security, are also introduced and defined as needed and as applied in specific contexts. The book opens with a discussion of reliability and availability applications to transmission and distribution systems, treating independent component outages and their effects on the continuity of supply. It then takes up models for generation planning and proceeds to the area of bulk power supply system reliability evaluation, offering methods for prediction of composite reliability of the generation and transmission systems. A final chapter extends the study into operating reliability assessments concerned with reserve problems: It considers the adequacy of the generating system to meet forecasted loads a short period ahead. Professor Billinton is in the Electrical Engineering Department at the University of Saskatchewan. Drs. Ringlee and Wood are with Power Technologies Inc. Their book is the sixth in the Modern Electrical Technology series, edited by Alexander Kusko. 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. In response to new developments in the field, practical teaching experience, and readers' suggestions, the authors of the warmly received Reliability Evaluation of Engineering Systems have updated and extended the work-providing extended coverage of fault trees and a more complete examination of probability distribution, among other things-without disturbing the original's concept, structure, or style. This book is a sequel to Reliability Evaluation of Engineering Systems: Concepts and Techniques, written by the same authors and published by Pitman Books in January 1983. As a sequel, this book is intended to be considered and read as the second of two volumes rather than as a text that stands on its own. For this reason, readers who are not familiar with basic reliability modelling and evaluation should either first read the companion volume or, at least, read the two volumes side by side. Those who are already familiar with the basic concepts and only require an extension of their knowledge into the power system problem area should be able to understand the present text with little or no reference to the earlier work. In order to assist readers, the present book refers frequently to the first volume at relevant points, citing it simply as Engineering Systems. Reliability Evaluation of Power Systems has evolved from our deep interest in education and our long-standing involvement in quantitative reliability evaluation and application of probability techniques to power system problems. It could not have been written, however, without the active involvement of many students in our respective research programs. There have been too many to mention individually but most are recorded within the references at the ends of chapters. The world is witnessing a rapid growth in wind and other renewable based electricity generation due to environmental concerns associated with electricity generation from the conventional sources. Wind power behaves quite differently than conventional electric power generating units due to its intermittent and diffuse nature. System planners and operators face the variability and uncertainty of wind power availability, and therefore, encounter considerable challenges in making decisions to maintain the adequacy and security of wind integrated power systems. This volume intends to bring out the original research work of researchers from academia and industry in understanding, quantifying and managing the risks associated with the uncertainty in wind variability in order to plan and operate a modern power system integrated with a significant proportion of wind power generation with an acceptable level of reliability. Accurate modeling of wind power variability and proper incorporation of the models in reliability and risk evaluation is very important for the planning and operation of electric power systems, and will play a crucial role in defining the requirement of various types of resources and services, such as storage and ancillary services in power systems. 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There have been advances in five distinct areas (i) Developing energy functions for structure preserving models which can incorporate non-linear load models (ii) Energy functions to include detailed model of the generating unit i. e. , the synchronous machine and the excitation system (iii) Reduced order energy functions for large scale power systems, the simplest being the single machine infinite bus system (iv) Characterization of the stability boundary of the post-fault stable equilibrium point (v) Applications for large power networks as a tool for dynamic security assessment. It was therefore felt appropriate to capture the essential features of these advances and put them in a somewhat cohesive framework. The chapters in the book roughly follow this sequence. It is interesting to note how different research groups come to the same conclusion via different reasons. This classic textbook/reference contains a complete integration of the processes which influence quality and reliability in product specification, design, test, manufacture and support. Provides a step-by-step explanation of proven techniques for the development and production of reliable engineering equipment as well as details of the highly regarded work of Taguchi and Shainin. New to this edition: over 75 pages of self-assessment questions plus a revised bibliography and references. The book fulfills the requirements of the qualifying examinations in reliability engineering of the Institute of Quality Assurance, UK and the American Society of Quality Control. The one resource needed to create reliable software This text offers a comprehensive and integrated approach to software quality engineering. By following the author's clear guidance, readers learn how to master the techniques to produce high-quality, reliable software, regardless of the software system's level of complexity. The first part of the publication introduces major topics in software quality engineering and presents quality planning as an integral part of the process. Providing readers with a solid foundation in key concepts and practices, the book moves on to offer in-depth coverage of software testing as a primary means to ensure software quality; alternatives for quality assurance, including defect prevention, process improvement, inspection, formal verification, fault tolerance, safety assurance, and damage control; and measurement and analysis to close the feedback loop for quality assessment and quantifiable improvement. The text's approach and style evolved from the author's hands-on experience in the classroom. All the pedagogical tools needed to facilitate quick learning are provided: * Figures and tables that clarify concepts and provide quick topic summaries * Examples that illustrate how theory is applied in real-world situations * Comprehensive bibliography that leads to in-depth discussion of specialized topics * Problem sets at the end of each chapter that test readers' knowledge This is a superior textbook for software engineering, computer science, information systems, and electrical engineering students, and a dependable reference for software and computer professionals and engineers.

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