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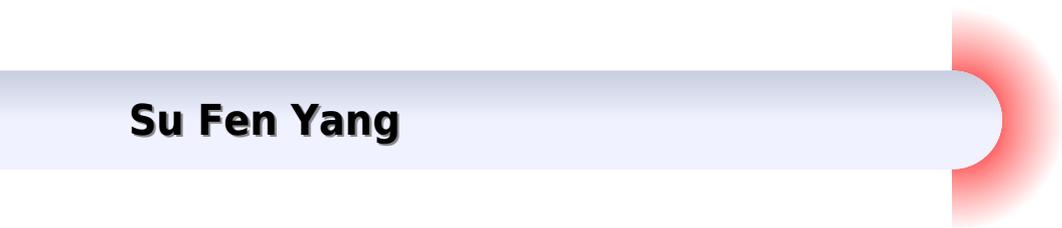
Gregory Levitin

The Universal Generating Function in Reliability Analysis and Optimization

 Springer

Universal Generating Function In Reliability Analysis And Optimisation

Su Fen Yang



Universal Generating Function In Reliability Analysis And Optimisation:

The Universal Generating Function in Reliability Analysis and Optimization Gregory Levitin, 2005-08-19 Many real world systems in engineering are composed of multi state components that have different performance levels and several failure modes These have effects on the entire system s performance Most books on reliability theory are devoted to traditional binary models that only allow a system either to function perfectly or fail completely The Universal Generating Function in Reliability Analysis and Optimization is the first book that gives a comprehensive description of the universal generating function technique and its applications in both binary and multi state system reliability analysis Features an introduction to the basic tools used in multi state system reliability and optimization applications of the universal generating function in the most widely used multi state systems several examples of how the universal generating function can be adapted to different systems in mechanical industrial and software engineering The Universal Generating Function in Reliability Analysis and Optimization will be of value to all those interested in multi state systems in industrial electrical and nuclear engineering The Springer Series in Reliability Engineering publishes high quality books in important areas of current theoretical research and development in reliability and in areas that bridge the gap between theory and application in areas of interest to practitioners in industry laboratories business and government

Reliability Modelling and Optimization of Warm Standby Systems Rui Peng, Qingqing Zhai, Jun Yang, 2021-05-02 This book introduces the reliability modelling and optimization of warm standby systems Warm standby is an attractive redundancy technique as it consumes less energy than hot standby and switches into the active state faster than cold standby Since a warm standby component experiences different failure rates in the standby state and active state the reliability evaluation is challenging and the existing works are only restricted to very special cases By adapting the decision diagrams this book proposes the methodology to evaluate the reliability of different types of warm standby systems and studies the reliability optimization Compared with existing works the proposed methods allow the system to have an arbitrary number of components and allow the failure time distribution of components to observe arbitrary distributions From this book the readers can not only learn how to evaluate and optimize the reliability of warm standby systems but also use the methods to study the reliability of other complex systems

Computational Problems in Science and Engineering Nikos Mastorakis, Aida Bulucea, George Tsekouras, 2015-10-26 This book provides readers with modern computational techniques for solving variety of problems from electrical mechanical civil and chemical engineering Mathematical methods are presented in a unified manner so they can be applied consistently to problems in applied electromagnetics strength of materials fluid mechanics heat and mass transfer environmental engineering biomedical engineering signal processing automatic control and more

Neutrosophic Sets and Systems, Vol. 91, 2025 Florentin Smarandache, Mohamed Abdel-Basset, Maikel Leyva Vazquez, Neutrosophic Sets and Systems Volume 91 2025 presents recent advances in neutrosophic theory and its diverse applications across mathematics computer science

engineering and the social sciences The issue brings together contributions that extend classical models of uncertainty fuzzy intuitionistic and probabilistic through refined neutrosophic frameworks including plithogenic superhyper quadripartitioned and n valued models Articles explore novel applications of neutrosophic integrals Markov decision processes network flows and dynamical systems addressing challenges in real time safety evaluation vocational education innovation and entrepreneurship training curriculum reform and urban hazard risk analysis Several contributions propose computational models that integrate neutrosophic logic with optimization decision making and assessment tools demonstrating their utility in areas ranging from electrical automation and robotics to dance aesthetics and political ideological education Collectively this volume highlights the versatility of neutrosophic approaches in capturing indeterminacy contradiction and partial truths while providing rigorous mathematical tools for complex uncertain and interdisciplinary domains

Nutritional Care of the Patient with Gastrointestinal Disease Alan L Buchman,2015-08-06 This evidence based book serves as a clinical manual as well as a reference guide for the diagnosis and management of common nutritional issues in relation to gastrointestinal disease Chapters cover nutrition assessment macro and micronutrient absorption malabsorption food allergies prebiotics and dietary fiber probiotics and intestinal microflora nutrition and GI cancer nutritional management of reflux nutrition in IBS and IBD nutrition in acute and chronic pancreatitis enteral nutrition parenteral nutrition medical and endoscopic therapy of obesity surgical therapy of obesity pharmacologic nutrition and nutritional counseling

Advances in Computer Science and Engineering Matthias Schmidt,2011-03-22 The book *Advances in Computer Science and Engineering* constitutes the revised selection of 23 chapters written by scientists and researchers from all over the world The chapters cover topics in the scientific fields of Applied Computing Techniques Innovations in Mechanical Engineering Electrical Engineering and Applications and Advances in Applied Modeling

Information Technology Applications in Industry III Su Fen Yang,2014-09-12 Selected peer reviewed papers from the 2014 3rd International Conference on Information Technology and Management Innovation ICITMI 2014 July 19 20 2014 Shenzhen China

Encyclopedia of Quantitative Risk Analysis and Assessment: R-Z Edward L. Melnick,Brian Everitt,2008

Encyclopedia of Quantitative Risk Analysis and Assessment ,2008-09-02 Leading the way in this field the *Encyclopedia of Quantitative Risk Analysis and Assessment* is the first publication to offer a modern comprehensive and in depth resource to the huge variety of disciplines involved A truly international work its coverage ranges across risk issues pertinent to life scientists engineers policy makers healthcare professionals the finance industry the military and practising statisticians Drawing on the expertise of world renowned authors and editors in this field this title provides up to date material on drug safety investment theory public policy applications transportation safety public perception of risk epidemiological risk national defence and security critical infrastructure and program management This major publication is easily accessible for all those involved in the field of risk assessment and analysis For ease of use it is available in print and online

Optical Coherence Tomography in

Cardiovascular Research Evelyn Regar,A.M.G.J. van Leeuwen,Patrick W. Serruys,2007-03-06 Given that for centuries the standard tool to understand diseases in tissues was the microscope and that its major limitation was that only excised tissue could be used recent technology now permits the examination of diseased tissue in vivo Optical coherence tomography OCT has promising potential when applied to coronary artery disease OCT has the capability to identify coronary plaque and to distinguish between plaques that are stable and unstable If the plaques are stable then OCT can direct percutaneous intervention angioplasty or stenting Optical coherence tomography is a light based imaging technology that allows for very high resolution imaging in biological tissues It has been first applied in ophthalmology where it soon became the golden standard for the assessment of epi retinal processes The unique imaging capabilities have raised the interest of researchers and clinicians in the field of cardiovascular disease since OCT offers unique possibilities to study atherosclerosis pathophysiology in vivo With over 1 1M Americans having a heart attack this year because of unstable plaque rupture OCT may have an increasingly important role in the early diagnosis of coronary artery disease This unique publication offers the reader the basic background to OCT and its role in the diagnosis and management of coronary artery disease The Handbook of Optical Coherence Tomography in Cardiovascular Research introduces the cardiovascular application of this technology Clinicians biologists engineers and physicist are discussing different aspects of cardiovascular OCT application in a multidisciplinary approach The handbook offers the readership a concise overview on the current state of the art of vascular OCT imaging and sheds light on a variety of exciting new developments The physics technical principles of OCT and its application in a broad spectrum of cardiovascular research areas are summarized by highly recognized specialists The potential of OCT in peripheral and coronary arteries and in developmental cardiology are described Each research area is introduced by a clinical expert in the field followed by discussion of different aspects from an engineering biomedical and clinical perspective Specifically the current capabilities for plaque characterization detection of vulnerable plaque guidance of interventional procedures Doppler assessment and molecular contrast imaging are being described The Handbook of Optical Coherence Tomography in Cardiovascular Research targets researchers and clinicians involved in the field of atherosclerosis The summary of basic physics engineering solutions pre clinical and clinical application covers all relevant aspects and will be a valuable reference source

Discrete Event Systems 2004 (WODES'04) Janan Zaytoon,2005-12-22
Approx 484 pages

Multi-state System Reliability Analysis and Optimization for Engineers and Industrial Managers
Anatoly Lisnianski,Ilia Frenkel,Yi Ding,2010-08-02 Multi state System Reliability Analysis and Optimization for Engineers and Industrial Managers presents a comprehensive up to date description of multi state system MSS reliability as a natural extension of classical binary state reliability It presents all essential theoretical achievements in the field but is also practically oriented New theoretical issues are described including combined Markov and semi Markov processes methods and universal generating function techniques statistical data processing for MSSs reliability analysis of aging MSSs methods

for cost reliability and cost availability analysis of MSSs and main definitions and concepts of fuzzy MSS Multi state System Reliability Analysis and Optimization for Engineers and Industrial Managers also discusses life cycle cost analysis and practical optimal decision making for real world MSSs Numerous examples are included in each section in order to illustrate mathematical tools Besides these examples real world MSSs such as power generating and transmission systems air conditioning systems production systems etc are considered as case studies Multi state System Reliability Analysis and Optimization for Engineers and Industrial Managers also describes basic concepts of MSS MSS reliability measures and tools for MSS reliability assessment and optimization It is a self contained study resource and does not require prior knowledge from its readers making the book attractive for researchers as well as for practical engineers and industrial managers

The British National Bibliography Arthur James Wells,2005 **Reliability and Productivity of Reconfigurable Manufacturing Systems** Theodor Ira Freiheit,2003 *Multi-state System Reliability: Assessment, Optimization And Applications* Gregory Levitin,Anatoly Lisnianski,2003-03-12 Most books on reliability theory are devoted to traditional binary reliability models allowing for only two possible states for a system and its components perfect functionality and complete failure However many real world systems are composed of multi state components which have different performance levels and several failure modes with various effects on the entire system performance degradation Such systems are called Multi State Systems MSS The examples of MSS are power systems where the component performance is characterized by the generating capacity computer systems where the component performance is characterized by the data processing speed communication systems etc This book is the first to be devoted to Multi State System MSS reliability analysis and optimization It provides a historical overview of the field presents basic concepts of MSS defines MSS reliability measures and systematically describes the tools for MSS reliability assessment and optimization Basic methods for MSS reliability assessment such as a Boolean methods extension basic random process methods both Markov and semi Markov and universal generating function models are systematically studied A universal genetic algorithm optimization technique and all details of its application are described All the methods are illustrated by numerical examples The book also contains many examples of application of reliability assessment and optimization methods to real engineering problems The aim of this book is to give a comprehensive up to date presentation of MSS reliability theory based on modern advances in this field and provide a theoretical summary and examples of engineering applications to a variety of technical problems From this point of view the book bridges the gap between theoretical advances and practical reliability engineering **Naval Research Logistics** ,2005 **Electrical & Electronics Abstracts** ,1997 American Book Publishing Record ,2005 *Soviet Journal of Computer and Systems Sciences* ,1987-07 **The Engineering Index Annual** ,1992 Since its creation in 1884 Engineering Index has covered virtually every major engineering innovation from around the world It serves as the historical record of virtually every major engineering innovation of the 20th century Recent content is a vital resource for current

awareness new production information technological forecasting and competitive intelligence The world s most comprehensive interdisciplinary engineering database Engineering Index contains over 10 7 million records Each year over 500 000 new abstracts are added from over 5 000 scholarly journals trade magazines and conference proceedings Coverage spans over 175 engineering disciplines from over 80 countries Updated weekly

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