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Performance, Reliability, and Availability Evaluation of Computational Systems, Volume 2 Reliability Engineering and Services Reliability and Optimization of Structural Systems ’88 Advances in Reliability and System Engineering Structural Reliability and Time-Dependent Reliability Machine Tool Reliability Electric Power Grid Reliability Evaluation Handbook of Optimization in Telecommunications New Computational Methods in Power System Reliability Reliability and Optimization of Structural Systems Reliability, Maintainability, and Supportability Computer Safety, Reliability, and Security. SAFECOMP 2023 Workshops Engineering Reliability and Risk in Water Resources Reliability and Resilience in the Internet of Things Computational Intelligence in Reliability Engineering Reliability Engineering for Electronic Design Reliability Abstracts and Technical Reviews Gas and Oil Reliability Engineering Software Architecture and Design for Reliability Predictability Advanced Reliability Modeling Recent Advances in Reliability and Quality Engineering Safety and Reliability – Safe Societies in a Changing World Reliability and Physics-of-Healthy in Mechatronics Systems Reliability and Risk Analysis System Reliability and Security Reliability and Optimization of Structural Systems: Assessment, Design, and Life-Cycle Performance Reliability Analysis and Prediction Quality Control, Reliability, and Engineering Design Decision Analytics Applications in Industry Computer Safety, Reliability and Security Predictive Analytics in System Reliability Advances and Applications of DSmT for Information Fusion (Collected Works. Volume 5) Computer Safety, Reliability, and Security Stochastic Models in Reliability Engineering Computer Safety, Reliability, and Security System Performance and Management Analytics Safety and Reliability. Theory and Applications Computer Information Systems and Industrial Management Reliability Engineering Optimization Models in Software Reliability

Performance, Reliability, and Availability Evaluation of Computational Systems, Volume 2 2023-04-06 covers performance reliability and availability evaluation for computing systems although the methods may also be applied to other systems provides a resource for computer performance professionals to support planning design configuring and tuning the performance reliability and availability of computing systems volume 2 includes coverage of reliability and availability modeling and measuring and data analysis

Reliability Engineering and Services 2018-12-31 offers a holistic approach to guiding product design manufacturing and after sales support as the manufacturing industry transitions from a product oriented model to service oriented paradigm this book provides fundamental knowledge and best industry practices in reliability modelling maintenance optimization and service parts logistics planning it aims to develop an integrated product service system ipss synthesizing design for reliability performance based maintenance and spare parts inventory it also presents a lifecycle reliability inventory optimization framework where reliability redundancy maintenance and service parts are jointly coordinated additionally the book aims to report the latest advances in reliability growth planning maintenance contracting and spares inventory logistics under non stationary demand condition reliability engineering and service provides in depth chapter coverage of topics such as reliability concepts and models mean and variance of reliability estimates design for reliability reliability growth planning accelerated life testing and its economics renewal theory and superimposed renewals maintenance and performance based logistics warranty service models basic spare parts inventory models repairable inventory systems integrated product service systems ipps and resilience modeling and planning guides engineers to design reliable products at a low cost assists service engineers in providing superior after sales support enables managers to respond to the changing market and customer needs uses end of chapter case studies to illustrate industry best practice lifecycle approach to reliability maintenance and spares provisioning reliability engineering and service is an important book for graduate engineering students researchers and industry based reliability practitioners and consultants

Reliability and Optimization of Structural Systems ’88 2012-12-06 the present book contains 30 papers presented at the 2nd working conference on reliability and optimization of structural systems the purpose of the working group was to promote modern structural system optimization and reliability theory to advance international cooperation in the field of structural system optimization and reliability theory to stimulate research development and application of structural system optimization and reliability theory to further the dissemination and exchange of information on reliability and optimization of structural system optimization and reliability theory to encourage education in structural system optimization and reliability theory

Advances in Reliability and System Engineering 2016-11-30 this book presents original studies describing the latest research and developments in the area of reliability and systems engineering it helps the reader identifying gaps in the current knowledge and presents fruitful areas for further research in the field among others this book covers reliability measures reliability assessment of multi state systems optimization of multi state systems continuous multi state systems new computational techniques applied to multi state systems and probabilistic and non probabilistic safety assessment

Structural Reliability and Time-Dependent Reliability 2020-12-15 this book provides structural reliability and design students with fundamental knowledge in structural reliability as well as an overview of the latest developments in the field of reliability engineering it addresses the mathematical formulation of analytical tools for structural reliability assessment this book offers an accessible introduction to structural reliability assessment and a solid foundation for problem solving it introduces the topic and background before dealing with probability models for random variables it then explores simulation techniques for single random variables random vectors consisting of different variables and stochastic processes the book addresses analytical approaches for structural reliability assessment including the reliability models for a single structure and those for multiple structures as well as discussing the approaches for structural time dependent reliability assessment in the presence of discrete and continuous load processes this book delivers a timely and pedagogical textbook including over 170 worked through examples detailed solutions and analytical tools making it of interest to a wide range of graduate students researchers and practitioners in the field of reliability engineering

Machine Tool Reliability 2016-02-19 this book explores the domain of reliability engineering in the context of machine tools failures of machine

tools not only jeopardize users ability to meet their due date commitments but also lead to poor quality of products slower production down time losses etc poor reliability and improper maintenance of a machine tool greatly increases the life cycle cost to the user thus the application area of the present book i e machine tools will be equally appealing to machine tool designers production engineers and maintenance managers the book will serve as a consolidated volume on various dimensions of machine tool reliability and its implications from manufacturers and users point of view from the manufacturers point of view it discusses various approaches for reliability and maintenance based design of machine tools in specific it discusses simultaneous selection of optimal reliability configuration and maintenance schedules maintenance optimization under various maintenance scenarios and cost based fmea from the users point of view it explores the role of machine tool reliability in shop floor level decision making in specific it shows how to model the interactions of machine tool reliability with production scheduling maintenance scheduling and process quality control

Electric Power Grid Reliability Evaluation 2018-12-11 the groundbreaking book that details the fundamentals of reliability modeling and evaluation and introduces new and future technologies electric power grid reliability evaluation deals with the effective evaluation of the electric power grid and explores the role that this process plays in the planning and designing of the expansion of the power grid the book is a guide to the theoretical approaches and processes that underpin the electric power grid and reviews the most current and emerging technologies designed to ensure reliability the authors noted experts in the field also present the algorithms that have been developed for analyzing the soundness of the power grid a comprehensive resource the book covers probability theory stochastic processes and a frequency based approach in order to provide a theoretical foundation for reliability analysis throughout the book the concepts presented are explained with illustrative examples that connect with power systems the authors cover generation adequacy methods and multi node analysis which includes both multi area as well as composite power system reliable evaluation this important book provides a guide to the basic methods of reliability modeling and evaluation contains a helpful review of the background of power system reliability evaluation includes information on new technology sources that have the potential to create a more reliable power grid addresses renewable energy sources and shows how they affect power outages and blackouts that pose new challenges to the power grid system written for engineering students and professionals electric power grid reliability evaluation is an essential book that explores the processes and algorithms for creating a sound and reliable power grid

Handbook of Optimization in Telecommunications 2008-12-10 this comprehensive handbook brings together experts who use optimization to solve problems that arise in telecommunications it is the first book to cover in detail the field of optimization in telecommunications recent optimization developments that are frequently applied to telecommunications are covered the spectrum of topics covered includes planning and design of telecommunication networks routing network protection grooming restoration wireless communications network location and assignment problems internet protocol world wide and stochastic issues in telecommunications the book s objective is to provide a reference tool for the increasing number of scientists and engineers in telecommunications who depend upon optimization

New Computational Methods in Power System Reliability 2008-05-22 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

Reliability and Optimization of Structural Systems 2013-06-05 the 6th meeting sponsored by ifip working group 7 5 on reliability and optimization of structural systems took place in september 1994 in assisi italy this book contains the papers presented at the working conference including topics such as reliability of special structures fatigue failure modes and time variant systems relibility

Reliability, Maintainability, and Supportability 2015-02-25 focuses on the core systems engineering tasks of writing managing and tracking requirements for reliability maintainability and supportability that are most likely to satisfycustomers and lead to success for suppliers this book helps systems engineers lead the development ofsystems and services whose reliability maintainability andsupportability meet and exceed the

expectations of their customersand promote success and profit for their suppliers this book isorganized into three major parts reliability maintainability andsupportability engineering within each part there is material onrequirements development quantitative modelling statisticalanalysis and best practices in each of these areas heavy emphasisis placed on correct use of language the author discusses the useof various sustainability engineering methods and techniques incrafting requirements that are focused on the customers needs unambiguous easily understood by the requirements stakeholders and verifiable part of each major division of thebook is devoted to statistical analyses needed to determine whenrequirements are being met by systems operating in customerenvironments to further support systems engineers in writing analyzing and interpreting sustainability requirements this bookalso contains language tips to help systems engineerslearn the different languages spoken by specialists andnon specialists in the sustainability disciplines provides exercises in each chapter allowing the reader to tryout some of the ideas and procedures presented in the chapter delivers end of chapter summaries of the current reliability maintainability and supportability engineering best practices forsystems engineers reliability maintainability and supportability is a referencefor systems engineers and graduate students hoping to learn how toeffectively determine and develop appropriate requirements so thatdesigners may fulfil the intent of the customer

Computer Safety, Reliability, and Security. SAFECOMP 2023 Workshops 2023-10-15 this book constitutes the proceedings of the workshops held in conjunction with safecomp 2023 held in toulouse france during september 19 2023 the 35 full papers included in this volume were carefully reviewed and selected from 49 submissions 8th international workshop on assurance cases for software intensive systems assure 2023 18th international workshop on dependable smart embedded and cyber physical systems and systems of systems decsos 2023 10th international workshop on next generation of system assurance approaches for critical systems sassur 2023 second international workshop on security and safety interactions sensei 2023 first international workshop on safety reliability trustworthiness of intelligent transportation systems srtoits 2023 6th international workshop on artificial intelligence safety engineering waise 2023

Engineering Reliability and Risk in Water Resources 2012-12-06 hydraulic hydrologic and water resources engineers have been concerned for a long time about failure phenomena one of the major concerns is the definition of a failure event e of its probability of occurrence pte and of the complementary notion of reliability however as the stochastic aspects of hydraulics and water resources engineering were developed words such as failure reliability and risk took on different meanings for different specialists for example risk is defined in a bayesian framework as the expected loss resulting from a precisely defined failure event while according to the practice of stochastic hydraulics it is the probability of occurrence of a failure event the need to standardize the various concepts and operational definitions generated numerous exciting discussions between the co editors of this book during 1983 84 when l duckstein under sponsorship of the alexander von humboldt foundation frg was working with e plate at the institute of hydrology and water resources of the university of karlsruhe after consulting with the scientific affairs division of nato an organizing committee was formed this comittee j bernier france m benedini italy s sorooshian u s a and co directors l duckstein u s a and e j plate f r g brought into being this nato advanced study institute asi precisely stated the purpose of this asi was to present a tutorial overview of existing work in the broad area of reliability while also pointing out topics for further development

Reliability and Resilience in the Internet of Things 2024-04-14 reliability and resilience in the internet of things explains the latest advances in reliability modelling analysis and design techniques for iot systems over the past decade iot has developed rapidly and it now spans diverse application domains such as healthcare home automation smart manufacture and smart agriculture due to the critical nature of these iot applications it is imperative that these systems operate reliably throughout the intended mission time this timely book provides state of the art coverage on iot reliability modeling analysis and design methods and solutions to help prevent costly malfunctions such as failures to capture critical data network outages data corruption or loss during transmission or storage from the viewpoint of engineers researchers and developers reliability analysis and design are key to the deployment of iot systems in critical applications and this book contains the best advice on the subject available addresses several iot applications with case studies explores solutions in the contexts of iot layered architecture as well as cross layer interactions and dependencies explains fundamentals of iot technology in terms of reliability and resilience

Computational Intelligence in Reliability Engineering 2006-12-13 this book covers the recent applications of computational intelligence techniques in reliability engineering this volume contains a survey of the contributions made to the optimal reliability design literature in recent years it also contains chapters devoted to different applications of a genetic algorithm in reliability engineering and to combinations of this algorithm with other computational intelligence techniques

Reliability Engineering for Electronic Design 2020-11-26 this book addresses the needs of electronic design engineers reliability engineers and their respective managers stressing a pragmatic viewpoint rather than a vigorous mathematical presentation

Reliability Abstracts and Technical Reviews 1967 concise and easy to understand this is the first book to apply reliability value improvement practices and process enterprises lifecycle analysis to the oil and gas industry with this book in hand engineers also gain a powerful guide to the most important methods used by software modeling tools which aid in the planning and execution of an effective reliability target for equipment equipment development inspection and maintenance programs system performance analysis also human factors and safety assessment

Gas and Oil Reliability Engineering 2012-09-26 reliability prediction of a software product is complex due to interdependence and interactions among components and the difficulty of representing this behavior with tractable models models developed by making simplifying assumptions about the software structure may be easy to use but their result may be far from what happens in reality making assumptions closer to the reality which allows complex interactions and interdependences among components results in models that are too complex to use their results may also be too difficult to interpret the reliability prediction problem is worsened by the lack of precise information on the behavior of components and their interactions information that is relevant for reliability modeling usually the interactions are not known precisely because of subtle undocumented side effects without accurate precise information even mathematically correct models will not yield accurate reliability predictions deriving the necessary information from program code is not practical if not impossible this is because the code contains too much implementation detail to be useful in creating a tractable model it is also difficult to analyze system reliability completely based on the program code this book documents the resulting novel approach of designing specifying and describing the behavior of software systems in a way that helps to predict their reliability from the reliability of the components and their interactions the design approach is named design for reliability predictability drp it integrates design for change precise behavioral documentation and structure based reliability prediction to achieve improved reliability prediction of software systems the specification and documentation approach builds upon precise behavioral specification of interfaces using the trace function method tfm it also introduces a number of structure functions or connection documents these functions capture both the static and dynamic behaviors of component based software systems they are used as a basis for a novel document driven structure based reliability prediction model system reliability assessment is studied in at least three levels component reliability which is assumed to be known interaction reliability a novel approach to studying software reliability and service reliability whose estimation is the primary objective of reliability assessment system reliability can be expressed as a function of service reliability a mobile streaming system designed and developed by the author as an industrial product is used as a case study to demonstrate the application of the approach

Software Architecture and Design for Reliability Predictability 2011-09-22 the 2004 asian international workshop on advanced reliability modeling is a symposium for the dissemination of state of the art research and the presentation of practice in reliability engineering and related issues in asia it brings together researchers scientists and practitioners from asian countries to discuss the state of research and practice in dealing with reliability issues at the system design modeling level and to jointly formulate an agenda for future research in this engineering area the proceedings cover all the key topics in reliability maintainability and safety engineering providing an in depth presentation of theory and practice the proceedings have been selected for coverage in index to scientific technical proceedings istp isi proceedings index to scientific technical proceedings istp cdrom version isi proceedings cc proceedings engineering physical sciences contents how can we estimate software reliability with a continuous state software reliability model t ando t dohi performing the soft error rate ser on a tdbi chamber v chang w t k chien warranty and imperfect repairs s chukova y hayakawa availability for a repairable system with finite repairs l cui j li reliability of a server system with access restriction m imaizumi et

al simulated annealing algorithm for redundancy optimization with multiple component choices h g kim et al a random shock model for a continuously deteriorating system k e lim et al five further studies for reliability models t nakagawa computation technology for safety and risk assessment of gas pipeline systems v seleznev v aleshin automatic pattern classification reliability of the digitized mammographic breast density t sumimoto et al and other papers readership graduate students researchers and practitioners in industrial engineering computer engineering systems engineering business management and mathematics keywords reliability maintenance safety failure risk assessment testing modeling probability statistics

Advanced Reliability Modeling 2004-08-17 this volume presents recent research in reliability and quality theory and its applications by many leading experts in the field the subjects covered include reliability optimization software reliability maintenance quality engineering system reliability monte carlo simulation tolerance design optimization manufacturing system estimation neural networks software quality assessment optimization design of life tests software quality reliability centered maintenance multivariate control chart methodology for measurement of test effectiveness imperfect preventive maintenance markovian reliability modeling accelerated life testing and system availability assessment the book will serve as a reference for postgraduate students and will also prove useful for practitioners and researchers in reliability and quality engineering

Recent Advances in Reliability and Quality Engineering 2001 safety and reliability safe societies in a changing world collects the papers presented at the 28th european safety and reliability conference esrel 2018 in trondheim norway june 17 21 2018 the contributions cover a wide range of methodologies and application areas for safety and reliability that contribute to safe societies in a changing world these methodologies and applications include foundations of risk and reliability assessment and management mathematical methods in reliability and safety risk assessment risk management system reliability uncertainty analysis digitalization and big data prognostics and system health management occupational safety accident and incident modeling maintenance modeling and applications simulation for safety and reliability analysis dynamic risk and barrier management organizational factors and safety culture human factors and human reliability resilience engineering structural reliability natural hazards security economic analysis in risk management safety and reliability safe societies in a changing world will be invaluable to academics and professionals working in a wide range of industrial and governmental sectors offshore oil and gas nuclear engineering aeronautics and aerospace marine transport and engineering railways road transport automotive engineering civil engineering critical infrastructures electrical and electronic engineering energy production and distribution environmental engineering information technology and telecommunications insurance and finance manufacturing marine transport mechanical engineering security and protection and policy making

Safety and Reliability – Safe Societies in a Changing World 2018-06-15 this book illustrates simply but with many details the state of the art of reliability science exploring clear reliability disciplines and applications through concrete examples from their industries and from real life based on industrial experiences many experts believe that reliability is not only a matter of statistics but is a multidisciplinary scientific topic involving materials tests simulations quality tools manufacturing electronics mechatronics environmental engineering and big data among others for a complex mechatronic system failure risks have to be identified at an early stage of the design in the automotive and aeronautic industries fatigue simulation is used both widely and efficiently problems arise from the variability of inputs such as fatigue parameters and life curves this book aims to discuss probabilistic fatigue and reliability simulation to do this reliability and physics of healthy in mechatronics provides a study on some concepts of a predictive reliability model of microelectronics with examples from the automotive aeronautic and space industries based on entropy and physics of healthy

Reliability and Physics-of-Healthy in Mechatronics 2022-12-09 ernst g frankel this book has its origin in lecture notes developed over several years for use in a course in systems reliability for engineers concerned with the design of physical systems such as civil structures power plants and transport vehicles of all types increasing public concern with the reliability o systems for reasons of human safety environmental protection and acceptable ir vestment risk limitations has resulted in an increasing interest by engineers in the formal applica i0n of reliability theory to e gineering desian at the same time there is a demand for more effective approaches to the des gn of procedures for the operation and use of man made syste s and more meaningful assessment of the risks intr duction and use of such a system poses both when operating as designed and when operating at below

design performance the purpose of the book is to provide a sound yet practical introduction to reliability analysis and risk assessment which can be used by professionals in engineering planning management and economics to improve the design operation and risk assessment of systems of interest the text should be useful for students in many disciplines and is designed for fourth year undergraduates or first year graduate students i would like to acknowledge the help of many of my graduate students who contributed to the development of this book by offering comments and criticism similarly i would like to thank mrs

Systems Reliability and Risk Analysis 2013-03-12 because of the growing reliance on software concerns are growing as to how reliable a system is before it is commissioned for use how high the level of reliability is in the system and how many vulnerabilities exist in the system before its operationalization equally pressing issues include how to secure the system from internal and external security threats that may exist in the face of resident vulnerabilities these two problems are considered increasingly important because they necessitate the development of tools and techniques capable of analyzing dependability and security aspects of a system these concerns become more pronounced in the cases of safety critical and mission critical systems system reliability and security techniques and methodologies focuses on the use of soft computing techniques and analytical techniques in the modeling and analysis of dependable and secure systems it examines systems and applications having complex distributed or networked architectures in such fields as nuclear energy ground transportation systems air traffic control healthcare and medicine communications system reliability engineering is a multidisciplinary field that uses computational methods for estimating or predicting the reliability aspects of a system and analyzing failure data obtained from real world projects system security is a related field that ensures that even a reliable system is secure against accidental or deliberate intrusions and is free of vulnerabilities this book covers tools and techniques cutting edge research topics and methodologies in the areas of system reliability and security it examines prediction models and methods as well as how to secure a system as it is being developed

System Reliability and Security 2023-12-07 focussing on structural reliability methods reliability based optimization structural system reliability and risk analysis lifetime performance and various applications in civil engineering invaluable to all concerned with structural system reliability and optimization especially students engineers and workers in research and development

Reliability and Optimization of Structural Systems: Assessment, Design, and Life-Cycle Performance 2007-06-28 this book equips the reader with a compact information source on all the most recent methodological tools available in the area of reliability prediction and analysis topics covered include reliability mathematics organisation and analysis of data reliability modelling and system reliability evaluation techniques environmental factors and stresses are taken into account in computing the reliability of the involved components the limitations of models methods procedures algorithms and programmes are outlined the treatment of maintained systems is designed to aid the worker in analysing systems with more realistic and practical assumptions fault tree analysis is also extensively discussed incorporating recent developments examples and illustrations support the reader in the solving of problems in his own area of research the chapters provide a logical and graded presentation of the subject matter bearing in mind the difficulties of a beginner whilst bridging the information gap for the more experienced reader the work will be of considerable interest to engineers working in various industries research organizations particularly in defence nuclear chemical space or communications it will also be an indispensable study aid for serious minded students and teachers

Reliability Analysis and Prediction 2012-12-02 for the first time in a single volume quality control reliability and design engineers have a comprehensive overview of how each of their disciplines interact to achieve optimum product and or project success thoroughly covering every stage of each phase this outstanding reference provides detailed discussions of techniques and methods ensuring cost effective and time saving procedures contains over 80 solved problems as well as numerous end of chapter exercises for reinforcement of essential material presents a complete relevant mathematics chapter that eliminates the need to refer to other math texts offers self contained chapters with introductions summaries and extensive references for quick easy reading and additional study quality control reliability and engineering design is a key on the job source for quality control reliability and design engineers and managers system engineers and managers and mechanical electrical and electronic

industrial and project engineers and managers the book also serves as an ideal reference for professional seminars and in house training programs as well as for upper level undergraduate and graduate courses in quality control reliability quality control and reliability and quality control of engineering design book jacket

Quality Control, Reliability, and Engineering Design 1985-03-19 this book presents a range of qualitative and quantitative analyses in areas such as cybersecurity sustainability multivariate analysis customer satisfaction parametric programming software reliability growth modeling and blockchain technology to name but a few it also highlights integrated methods and practices in the areas of machine learning and genetic algorithms after discussing applications in supply chains and logistics cloud computing six sigma production management big data analysis satellite imaging game theory biometric systems quality and system performance the book examines the latest developments and breakthroughs in the field of science and technology and provides novel problem solving methods the themes discussed in the book link contributions by researchers and practitioners from different branches of engineering and management and hailing from around the globe these contributions provide scholars with a platform to derive maximum utility in the area of analytics by subscribing to the idea of managing business through system sciences operations and management managers and decision makers can learn a great deal from the respective chapters which will help them devise their own business strategies and find real world solutions to complex industrial problems

Decision Analytics Applications in Industry 2020-05-27 this book constitutes the refereed proceedings of the 21st international conference on computer safety reliability and security safecomp 2002 held in catania italy in september 2002 the 27 revised papers presented together with 3 keynote presentations were carefully reviewed and selected from 69 submissions the papers are organized in topical sections on human computer system dependability human factors security dependability assessment application of formal methods reliability assessment design for dependability and safety assessment

Computer Safety, Reliability and Security 2003-08-02 this book provides engineers and researchers knowledge to help them in system reliability analysis using machine learning artificial intelligence big data genetic algorithm information theory multi criteria decision making and other techniques it will also be useful to students learning reliability engineering the book brings readers up to date with how system reliability relates to the latest techniques of ai big data genetic algorithm information theory and multi criteria decision making and points toward future developments in the subject

Predictive Analytics in System Reliability 2022-09-08 this fifth volume on advances and applications of dsmt for information fusion collects theoretical and applied contributions of researchers working in different fields of applications and in mathematics and is available in open access the collected contributions of this volume have either been published or presented after disseminating the fourth volume in 2015 available at fs unm edu dsmt book4 pdf or onera fr sites default files 297 2015 dsmt book4 pdf in international conferences seminars workshops and journals or they are new the contributions of each part of this volume are chronologically ordered first part of this book presents some theoretical advances on dsmt dealing mainly with modified proportional conflict redistribution rules pcr of combination with degree of intersection coarsening techniques interval calculus for pcr thanks to set inversion via interval analysis sivia rough set classifiers canonical decomposition of dichotomous belief functions fast pcr fusion fast inter criteria analysis with pcr and improved pcr5 and pcr6 rules preserving the quasi neutrality of quasi vacuous belief assignment in the fusion of sources of evidence with their matlab codes because more applications of dsmt have emerged in the past years since the apparition of the fourth book of dsmt in 2015 the second part of this volume is about selected applications of dsmt mainly in building change detection object recognition quality of data association in tracking perception in robotics risk assessment for torrent protection and multi criteria decision making multi modal image fusion coarsening techniques recommender system levee characterization and assessment human heading perception trust assessment robotics biometrics failure detection gps systems inter criteria analysis group decision human activity recognition storm prediction data association for autonomous vehicles identification of maritime vessels fusion of support vector machines svm silx furtif rust code library for information fusion including pcr rules and network for ship classification finally the third part presents interesting contributions related to belief functions in general

published or presented along the years since 2015 these contributions are related with decision making under uncertainty belief approximations probability transformations new distances between belief functions non classical multi criteria decision making problems with belief functions generalization of bayes theorem image processing data association entropy and cross entropy measures fuzzy evidence numbers negator of belief mass human activity recognition information fusion for breast cancer therapy imbalanced data classification and hybrid techniques mixing deep learning with belief functions as well we want to thank all the contributors of this fifth volume for their research works and their interests in the development of dsmt and the belief functions we are grateful as well to other colleagues for encouraging us to edit this fifth volume and for sharing with us several ideas and for their questions and comments on dsmt through the years we thank the international society of information fusion isif org for diffusing main research works related to information fusion including dsmt in the international fusion conferences series over the years florentin smarandache is grateful to the university of new mexico u s a that many times partially sponsored him to attend international conferences workshops and seminars on information fusion jean dezert is grateful to the department of information processing and systems dtis of the french aerospace lab office national d e tudes et de recherches ae rospatiales palaiseau france for encouraging him to carry on this research and for its financial support albena tchamova is first of all grateful to dr jean dezert for the opportunity to be involved during more than 20 years to follow and share his smart and beautiful visions and ideas in the development of the powerful dezert smarandache theory for data fusion she is also grateful to the institute of information and communication technologies bulgarian academy of sciences for sponsoring her to attend international conferences on information fusion

Advances and Applications of DSmT for Information Fusion (Collected Works. Volume 5) 2023-12-27 this book constitutes the proceedings of the 39th international conference on computer safety reliability and security safecomp 2020 held in lisbon portugal in september 2020 the 27 full and 2 short papers included in this volume were carefully reviewed and selected from 116 submissions they were organized in topical sections named safety cases and argumentation formal verification and analysis security modelling and methods assurance of learning enabled systems practical experience and tools threat analysis and risk mitigation cyber physical systems security and fault injection and fault tolerance the conference was held virtually due to the covid 19 pandemic the chapter assurance argument elements for off the shelf complex computational hardware is available open access under an open government license 3 0 via link springer com

Computer Safety, Reliability, and Security 2020-08-19 this book is a collective work by many leading scientists analysts mathematicians and engineers who have been working at the front end of reliability science and engineering the book covers conventional and contemporary topics in reliability science all of which have seen extended research activities in recent years the methods presented in this book are real world examples that demonstrate improvements in essential reliability and availability for industrial equipment such as medical magnetic resonance imaging power systems traction drives for a search and rescue helicopter and air conditioning systems the book presents real case studies of redundant multi state air conditioning systems for chemical laboratories and covers assessments of reliability and fault tolerance and availability calculations conventional and contemporary topics in reliability engineering are discussed including degradation networks dynamic reliability resilience and multi state systems all of which are relatively new topics to the field the book is aimed at engineers and scientists as well as postgraduate students involved in reliability design analysis experiments and applied probability and statistics

Stochastic Models in Reliability Engineering 2020-07-29 this book constitutes the refereed proceedings of four workshops co located with safecomp 2016 the 35th international conference on computer safety reliability and security held in trondheim norway in september 2016 the 30 revised full papers presented together with 4 short and 5 invited papers were carefully reviewed and selected from numerous submissions this year s workshop are assure 2016 assurance cases for software intensive systems decsos 2016 ewics ercim artemis dependable cyber physical systems and systems of systems workshop sassur 2016 next generation of system assurance approaches for safety critical systems and tips 2016 timing performance in safety engineering

Computer Safety, Reliability, and Security 2016-09-01 this book shares key insights into system performance and management analytics

demonstrating how the field of analytics is currently changing and how it is used to monitor companies efforts to drive performance managing business performance facilitates the effective accomplishment of strategic and operational goals and there is a clear and direct correlation between using performance management applications and improved business and organizational results as such performance and management analytics can yield a range of direct and indirect benefits boost operational efficiency and unlock employees latent potential while at the same time aligning services with overarching goals the book addresses a range of topics including software reliability assessment testing quality management system performance management analysis using soft computing techniques and management analytics it presents a balanced holistic approach to viewing the world from both a technical and managerial perspective by considering performance and management analytics accordingly it offers a comprehensive guide to one of the most pressing issues in today s technology dominated world namely that most companies and organizations find themselves awash in a sea of data but lack the human capital appropriate tools and knowledge to use it to help them create a competitive edge

System Performance and Management Analytics 2018-07-30 safety and reliability theory and applications contains the contributions presented at the 27th european safety and reliability conference esrel 2017 portorož slovenia june 18 22 2017 the book covers a wide range of topics including accident and incident modelling economic analysis in risk management foundational issues in risk assessment and management human factors and human reliability maintenance modeling and applications mathematical methods in reliability and safety prognostics and system health management resilience engineering risk assessment risk management simulation for safety and reliability analysis structural reliability system reliability and uncertainty analysis selected special sessions include contributions on the marie skłodowska curie innovative training network in structural safety risk approaches in insurance and fi nance sectors dynamic reliability and probabilistic safety assessment bayesian and statistical methods reliability data and testing oganizational factors and safety culture software reliability and safety probabilistic methods applied to power systems socio technical economic systems advanced safety assessment methodologies extended probabilistic safety assessment reliability availability maintainability and safety in railways theory practice big data risk analysis and management and model based reliability and safety engineering safety and reliability theory and applications will be of interest to professionals and academics working in a wide range of industrial and governmental sectors including aeronautics and aerospace automotive engineering civil engineering electrical and electronic engineering energy production and distribution environmental engineering information technology and telecommunications critical infrastructures insurance and finance manufacturing marine industry mechanical engineering natural hazards nuclear engineering offshore oil and gas security and protection transportation and policy making

Safety and Reliability. Theory and Applications 2017-06-14 this book constitutes the proceedings of the 12th ifip tc 8 international conference cisim 2013 held in cracow poland in september 2013 the 44 papers presented in this volume were carefully reviewed and selected from over 60 submissions they are organized in topical sections on biometric and biomedical applications pattern recognition and image processing various aspects of computer security networking algorithms and industrial applications the book also contains full papers of a keynote speech and the invited talk

Computer Information Systems and Industrial Management 2013-09-20 get a firm handle on the engineering reliability process with this insightful and complete resource named one of the best industrial management ebooks of all time by bookauthority as featured on cnn forbes and inc bookauthority identifies and rates the best books in the world based on recommendations by thought leaders and experts the newly and thoroughly revised 3rd edition of reliability engineering delivers a comprehensive and insightful analysis of this crucial field accomplished author professor and engineer elsayed a elsayed includes new examples and end of chapter problems to illustrate concepts new chapters on resilience and the physics of failure revised chapters on reliability and hazard functions and more case studies illustrating the approaches and methodologies described within the book combines analyses of system reliability estimation for time independent and time dependent models with the construction of the likelihood function and its use in estimating the parameters of failure time distribution it concludes by addressing the physics of failures mechanical reliability and system resilience along with an explanation of how to ensure reliability objectives by providing preventive and scheduled maintenance and warranty policies this new edition of reliability engineering covers a wide range of topics including reliability and hazard functions like the weibull

model the exponential model the gamma model and the log logistic model among others system reliability evaluations including parallel series series parallel and mixed parallel systems the concepts of time and failure dependent reliability within both repairable and non repairable systems parametric reliability models including types of censoring and the exponential weibull lognormal gamma extreme value half logistic and rayleigh distributions perfect for first year graduate students in industrial and systems engineering reliability engineering 3rd edition also belongs on the bookshelves of practicing professionals in research laboratories and defense industries the book offers a practical and approachable treatment of a complex area combining the most crucial foundational knowledge with necessary and advanced topics

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