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Naval Surface Warfare Center West Bethesda, Maryland 20817-5700 Handbook of Reliability Prediction Procedures for Mechanical Equipment Logistics Technology Support

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Method I –Parts Count (MIL-HDBK-217 for electrical components, NPRD 2011 for mechanical components). Based on historical part failure rates, assigns “default” failure rates depending on part category.

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Much of the failure data presented in NPRD-2011 were identified by maintenance technicians performing a repair action, indicating that the criteria for failure is that a part in a particular application has failed in a manner that makes it apparent to the technician.

NPRD-2016-1 | Arithmetic Mean | Reliability Engineering
NPRD reflects field experience in military and commercial applications, concentrating on items not covered by other failure rate sources. This is an indispensable data source for engineers tasked to perform reliability analyses on system designs. Order Code: NPRD-95: Price: $195 US, $215 Non-US ...

RAC DOCUMENT - L Ricks
My company doesn't have a copy of NPRD 2011 but our reliability prediction software includes it and the components listed have MANY similar failure rates. Upon contacting the software company, they claim accuracy referencing NPRD 2011. Question is, does NPRD 2011 really have identical failure rates for many dissimilar components?

Nprd 2011 – RMQSI Knowledge Center
To increase sample size and allow for representative state-level analyses stratified by race, a cohort of children born during 2010–2013 was created by combining data from the 2011–2015 surveys. The Council of American Survey and Research Organizations response rates for the landline sample of NIS years 2011–2015 ranged from 59.2% to 76.1%.

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A comprehensive reference manual to the Certified Reliability Engineer Body of Knowledge and study guide for the CRE exam.

This first volume of a set dedicated to the reliability of high-power mechatronic systems focuses specifically on simulation, modeling and optimization in automotive and aerospace applications. In the search to improve industrial competitiveness, the development of methods and tools for the design of products is especially pertinent in the context of cost reduction. This book seeks to propose new methods that simultaneously allow for a quicker design of future mechatronic devices in the automotive and aerospace industries while guaranteeing their increased reliability. The reliability of these critical elements is further validated digitally through new multi-physical and probabilistic models that could ultimately lead to new design standards and reliable forecasting. Presents a methodological guide that demonstrates the reliability of fractured mechatronic components and devices Includes numerical and statistical models to optimize the reliability of the product architecture Helps users develop a methodology to characterize critical elements at the earliest stage

This book presents recent results on fault diagnosis and condition monitoring of airborne electromechanical actuators, illustrating both algorithmic and hardware design solutions to enhance the reliability of onboard more electric aircraft. The book begins with an introduction to the current trends in the development of electrically powered actuation systems for aerospace applications. Practical examples are proposed to help present approaches to reliability, availability, maintainability and safety analysis of airborne equipment. The terminology and main strategies for fault diagnosis and condition monitoring are then reviewed. The core of the book focuses on the presentation of relevant case studies of fault diagnosis and monitoring design for airborne electromechanical actuators, using different techniques. The last part of the book is devoted to a summary of lessons learned and practical suggestions for the design of fault diagnosis solutions of complex airborne systems. The book is written with the idea of providing practical guidelines on the development of fault diagnosis and monitoring algorithms for airborne electromechanical actuators. It will be of interest to practitioners in aerospace, mechanical, electronic, reliability and systems engineering, as well as researchers and postgraduates interested in dynamical systems, automatic control and safety-critical systems. Advances in Industrial Control reports and encourages the transfer of technology in control engineering. The rapid development of control technology has an impact on all areas of the control discipline. The series offers an opportunity for researchers to present an extended exposition of new work in all aspects of industrial control.

Our life is strongly influenced by the reliability of the things we use, as well as of processes and services. Failures cause losses in the industry and society. Methods for reliability assessment and optimization are thus very important. This book explains the fundamental concepts and tools. It is divided into two parts. Chapters 1 to 10 explain the basic terms and methods for the determination of reliability characteristics, which create the base for any reliability evaluation. In the second part (Chapters 11 to 23) advanced methods are explained, such as Failure Modes and Effects Analysis and Fault Tree Analysis, Load-Resistance interference method, the Monte Carlo simulation technique, cost-based reliability optimization, reliability testing, and methods based on Bayesian approach or fuzzy logic for processing of vague information. The book is written in a readable way and practical examples help to understand the topics. It is complemented with references and a list of standards, software and sources of information on reliability.

Today’s real-world problems and applications in sensory systems and target detection require efficient, comprehensive and fault-tolerant multi-sensor allocation. This book presents the theory and applications of novel methods developed for such sophisticated systems. It discusses the advances in multi-agent systems and AI along with collaborative control theory and tools. Further, it examines the formulation and development of an allocation framework for heterogeneous multi-sensor systems for various real-world problems that require sensors with different performances to allocate multiple tasks, with unknown a priori priorities that arrive at unknown locations at unknown time. It demonstrates how to decide which sensor to allocate to which tasks when and where. Lastly, it explains the reliability and availability issues of task allocation systems, and includes methods for their optimization. The presented methods are explained, measured, and evaluated by extensive simulations, and the results of these simulations are presented in this book. This book is an ideal resource for academics, researchers and graduate students as well as engineers and professionals and is relevant for various applications such as sensor network design, multi-agent systems, task allocation, target detection, and team formation.

Includes the proceedings from the 7th IAASS Conference, "Space Safety is No Accident," held in Friedrichshafen, Germany, in October 2014. The 7th IAASS Conference, “Space Safety is No Accident” is an invitation to reflect and exchange information on a number of topics in space safety and sustainability of national and international interest. The conference is also a forum to promote mutual understanding, trust and the widest possible international cooperation in such matters. The once exclusive “club” of nations with autonomous sub-orbital and orbital space access capabilities is becoming crowded with fresh and ambitious new entrants. New commercial spaceports are starting operations and others are being built. In the manned spaceflight arena a commercial market is becoming a tangible reality with suborbital spaceflights and government use of commercial services for cargo and crew transportation to orbit. Besides the national ambitions in space, the international cooperation both civil and commercial is also gaining momentum. In the meantime robotic space exploration will accelerate and with it the need to internationally better regulate the usage of nuclear power sources. Space-bound systems and aviation traffic will share more and more a crowded airspace, while aviation will increasingly rely on space-based safety-critical services. Finally, most nations own nowadays space assets, mainly satellites of various kinds and purposes, which are under the constant threat of collision with other spacecraft and with the ever increasing number of space debris. Awareness is increasing internationally (as solemnly declared since decades in space treaties) that space is a mankind asset and that we all have the duty of caring for it. Without proactive and courageous international initiatives to organize space, we risk to negate access and use of space to future generations.

This book shows how to build in, evaluate, and demonstrate reliability and availability of components, equipment, systems. It presents the state-of-the-art of reliability engineering, both in theory and practice, and is based on the author's more than 30 years experience in this field, half in industry and half as Professor of Reliability Engineering at the ETH, Zurich. The structure of the book allows rapid access to practical results. This final edition extend and replace all previous editions. New are, in particular, a strategy to mitigate incomplete coverage, a comprehensive introduction to human reliability with design guidelines and new models, and a refinement of reliability allocation, design guidelines for maintainability, and concepts related to regenerative stochastic processes. The set of problems for homework has been extended. Methods & tools are given in a way that they can be tailored to cover different reliability requirement levels and be used for safety analysis. Because of the Appendices A6 - A8, the book is also self contained from a mathematical point of view, and can be used as a text book or as a desktop reference, with a large number of tables (60), figures (190), and examples (210 of which 70 as problems for homework) to support the practical aspects.

The objective of the book is to provide all the elements to evaluate the performance of production availability and reliability of a system, to integrate them and to manage them in its life cycle. By the examples provided (case studies) the main target audience is that of the petroleum industries (where I spent most of my professional years). Although the greatest rigor is applied in the presentation, and justification, concepts, methods and data this book is geared towards the user.

Ce premier ouvrage dédié à la fiabilité des systèmes mécatroniques de forte puissance traite de la mécatronique embarquée, technologie qui combine la mécanique, l’électronique, le logiciel et le contrôle commande, et élément clé de la compétitivité des entreprises. Dans un contexte de recherche perpétuelle d’amélioration de la compétitivité industrielle, Fiabilité des systèmes mécatroniques de forte puissance 1 présente de nouvelles méthodes permettant de concevoir plus vite et à moindre coût les futurs dispositifs mécatroniques de rupture pour les secteurs de l’automobile et de l’aéronautique, tout en leur garantissant une fiabilité accrue. Cette fiabilité est de plus validée numériquement par des modèles multiphysiques et probabilistes inédits qui pourraient à terme aboutir à de nouveaux standards de conception et de fiabilité prévisionnelle.