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Reliability Growth: Enhancing Defense System Reliability ...

Reliability Growth evaluates these recent changes and, more generally, assesses how current DOD principles and practices could be modified to increase the likelihood that defense systems will satisfy their reliability requirements. This report examines changes to the reliability requirements for proposed systems; defines modern design and testing for reliability; discusses the contractor's role in reliability testing; and summarizes the current state of formal reliability growth modeling.

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Synopsis: A high percentage of defense systems fail to meet their
reliability requirements.

Reliability Growth: Enhancing Defense System Reliability ...

Using reliability growth for intermediate targets – there is noise on
both sides -- the targets and the estimates – that has to be
accommodated. How hard estimating system reliability is, especially
early in development. Reliability growth models are typically only a
function of time and not test environment or test scenarios.

Overview of: Reliability Growth: Enhancing Defense System ...

develop reliability requirements, to review acquisition proposals and
contracts regarding system reliability, and to monitor acquisition
programs through development, involving the use of design-for-
reliability methods and reliability testing, the U.S. Department of
Defense should acquire, through in-house hiring, through consulting
or contractual agreements, or by providing additional ...

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RECOMMENDATION 25 To help provide technical oversight
regarding the reliability of defense systems in development, specifically,
to help develop reliability requirements, to review acquisition
proposals and contracts regarding system reliability, and to monitor
acquisition programs through development, involving the use of
design-for-reliability methods and reliability testing, the U.S ...

Summary | Reliability Growth: Enhancing Defense System ...
Panel on Reliability Growth Methods for Defense Systems; Committee
on National Statistics; Division of Behavioral and Social Sciences and
Education; National Research Council Reliability - the innate
capability of a system to perform its intended functions - is one of the
key performance attributes that is tracked during U.S. Department of
Defense (DoD) acquisition processes.

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Uploaded By Eiji Yoshikawa, a high percentage of defense systems fail to meet their reliability requirements this is a serious problem for the us department of defense dod as well as the nation those systems are not only less likely to successfully carry out their

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A high percentage of defense systems fail to meet ...

Reliability growth : enhancing defense system reliability ...
reliability growth enhancing defense system reliability examines recent
changes the us department of defense dod has implemented to reduce
the frequency of reliability deficiencies for newly developed

A high percentage of defense systems fail to meet their reliability requirements. This is a serious problem for the U.S. Department of Defense (DOD), as well as the nation. Those systems are not only less likely to successfully carry out their intended missions, but they also could endanger the lives of the operators. Furthermore, reliability failures discovered after deployment can result in costly and strategic delays and the need for expensive redesign, which often limits the tactical situations in which the system can be used. Finally, systems that fail to meet their reliability requirements are much more likely to need additional scheduled and unscheduled maintenance and to need more

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spare parts and possibly replacement systems, all of which can substantially increase the life-cycle costs of a system. Beginning in 2008, DOD undertook a concerted effort to raise the priority of reliability through greater use of design for reliability techniques, reliability growth testing, and formal reliability growth modeling, by both the contractors and DOD units. To this end, handbooks, guidances, and formal memoranda were revised or newly issued to reduce the frequency of reliability deficiencies for defense systems in operational testing and the effects of those deficiencies. "Reliability Growth" evaluates these recent changes and, more generally, assesses how current DOD principles and practices could be modified to increase the likelihood that defense systems will satisfy their reliability requirements. This report examines changes to the reliability requirements for proposed systems; defines modern design and testing for reliability; discusses the contractor's role in reliability testing; and summarizes the current state of formal reliability growth modeling. The recommendations of "Reliability Growth" will improve the reliability of defense systems and protect the health of the valuable personnel who operate them.

The final report of the National Research Council's (NRC) Panel on Statistical Methods for Testing and Evaluating Defense Systems (National Research Council, 1998) was intended to provide broad advice to the U.S. Department of Defense (DoD) on current statistical methods and principles that could be applied to the developmental and operational testing and evaluation of defense systems. To that end, the report contained chapters on the use of testing as a tool of system development; current methods of experimental design; evaluation methods; methods for testing and assessing reliability, availability, and maintainability; software development and testing; and validation of modeling and simulation for use in operational test and evaluation. While the examination of such a wide variety of topics was useful in helping DoD understand the breadth of problems for which statistical methods could be applied and providing direction as to how the

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methods currently used could be improved, there was, quite naturally, a lack of detail in each area. To address the need for further detail, two DoD agencies—the Office of the Director of Operational Test and Evaluation and the Office of the Under Secretary of Defense for Acquisition, Technology, and Logistics—asked the NRC's Committee on National Statistics to initiate a series of workshops on statistical issues relevant to defense acquisition. The aim of each workshop is to inform DoD about the methods that represent the statistical state of the art and, through interactions of the statistical and defense communities, explore their relevance for DoD application.

The Stryker Mobile Gun System (MGS) is a major, complex weapon system that presented a challenge in meeting its reliability requirement due to new technology revolving around the system's automatic ammunition handling system (AHS). However, as a result of a successful reliability growth management program, the Stryker MGS program experienced an unprecedented growth rate during developmental testing that led the program to meet its requirement. The program employed an effective systems engineering process to identify and implement effective corrective actions and adopted the Reliability Growth Analysis methodology to accurately track the resulting reliability growth. These tools provided the product manager with the information necessary to allocate resources and maintain support for the program throughout its development. Other similar complex systems may benefit by applying these processes and tools.

Are you buying a car or smartphone or dishwasher? We bet long-term, trouble-free operation (i.e., high reliability) is among the top three things you look for. Reliability problems can lead to everything from minor inconveniences to human disasters. Ensuring high reliability in designing and building manufactured products is principally an engineering challenge — but statistics plays a key role. Achieving Product Reliability explains in a non-technical manner how statistics is used in modern product reliability assurance. Features: Describes

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applications of statistics in reliability assurance in design, development, validation, manufacturing, and field tracking. Uses real-life examples to illustrate key statistical concepts such as the Weibull and lognormal distributions, hazard rate, and censored data. Demonstrates the use of graphical tools in such areas as accelerated testing, degradation data modeling, and repairable systems data analysis. Presents opportunities for profitably applying statistics in the era of Big Data and Industrial Internet of Things (IIoT) utilizing, for example, the instantaneous transmission of large quantities of field data. Whether you are an intellectually curious citizen, student, manager, budding reliability professional, or academician seeking practical applications, *Achieving Product Reliability* is a great starting point for a big-picture view of statistics in reliability assurance. The authors are world-renowned experts on this topic with extensive experience as company-wide statistical resources for a global conglomerate, consultants to business and government, and researchers of statistical methods for reliability applications.

Handbook and reference for industrial statisticians and system reliability engineers *System Reliability Theory: Models, Statistical Methods, and Applications*, Third Edition presents an updated and revised look at system reliability theory, modeling, and analytical methods. The new edition is based on feedback to the second edition from numerous students, professors, researchers, and industries around the world. New sections and chapters are added together with new real-world industry examples, and standards and problems are revised and updated. *System Reliability Theory* covers a broad and deep array of system reliability topics, including:

- In depth discussion of failures and failure modes
- The main system reliability assessment methods
- Common-cause failure modeling
- Deterioration modeling
- Maintenance modeling and assessment using Python code
- Bayesian probability and methods
- Life data analysis using R

Perfect for undergraduate and graduate students taking courses in reliability engineering, this book also serves as a

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reference and resource for practicing statisticians and engineers. Throughout, the book has a practical focus, incorporating industry feedback and real-world industry problems and examples.

The authoritative guide to the effective design and production of reliable technology products, revised and updated While most manufacturers have mastered the process of producing quality products, product reliability, software quality and software security has lagged behind. The revised second edition of *Improving Product Reliability and Software Quality* offers a comprehensive and detailed guide to implementing a hardware reliability and software quality process for technology products. The authors – noted experts in the field – provide useful tools, forms and spreadsheets for executing an effective product reliability and software quality development process and explore proven software quality and product reliability concepts. The authors discuss why so many companies fail after attempting to implement or improve their product reliability and software quality program. They outline the critical steps for implementing a successful program. Success hinges on establishing a reliability lab, hiring the right people and implementing a reliability and software quality process that does the right things well and works well together. Designed to be accessible, the book contains a decision matrix for small, medium and large companies. Throughout the book, the authors describe the hardware reliability and software quality process as well as the tools and techniques needed for putting it in place. The concepts, ideas and material presented are appropriate for any organization. This updated second edition: Contains new chapters on Software tools, Software quality process and software security. Expands the FMEA section to include software fault trees and software FMEAs. Includes two new reliability tools to accelerate design maturity and reduce the risk of premature wearout. Contains new material on preventative maintenance, predictive maintenance and Prognostics and Health Management (PHM) to better manage repair cost and unscheduled downtime. Presents updated information on reliability modeling and

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hiring reliability and software engineers. Includes a comprehensive review of the reliability process from a multi-disciplinary viewpoint including new material on uprating and counterfeit components. Discusses aspects of competition, key quality and reliability concepts and presents the tools for implementation. Written for engineers, managers and consultants lacking a background in product reliability and software quality theory and statistics, the updated second edition of *Improving Product Reliability and Software Quality* explores all phases of the product life cycle.

An authoritative guide to the most recent advances in statistical methods for quantifying reliability *Statistical Methods for Reliability Data, Second Edition (SMRD2)* is an essential guide to the most widely used and recently developed statistical methods for reliability data analysis and reliability test planning. Written by three experts in the area, SMRD2 updates and extends the long-established statistical techniques and shows how to apply powerful graphical, numerical, and simulation-based methods to a range of applications in reliability. SMRD2 is a comprehensive resource that describes maximum likelihood and Bayesian methods for solving practical problems that arise in product reliability and similar areas of application. SMRD2 illustrates methods with numerous applications and all the data sets are available on the book's website. Also, SMRD2 contains an extensive collection of exercises that will enhance its use as a course textbook. The SMRD2's website contains valuable resources, including R packages, Stan model codes, presentation slides, technical notes, information about commercial software for reliability data analysis, and csv files for the 93 data sets used in the book's examples and exercises. The importance of statistical methods in the area of engineering reliability continues to grow and SMRD2 offers an updated guide for, exploring, modeling, and drawing conclusions from reliability data. SMRD2 features: Contains a wealth of information on modern methods and techniques for reliability data analysis Offers discussions on the practical problem-solving power of

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various Bayesian inference methods Provides examples of Bayesian data analysis performed using the R interface to the Stan system based on Stan models that are available on the book's website Includes helpful technical-problem and data-analysis exercise sets at the end of every chapter Presents illustrative computer graphics that highlight data, results of analyses, and technical concepts Written for engineers and statisticians in industry and academia, *Statistical Methods for Reliability Data, Second Edition* offers an authoritative guide to this important topic.

Get a firm handle on the engineering reliability process with this insightful and complete resource 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

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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.

An indispensable guide for engineers and data scientists in design, testing, operation, manufacturing, and maintenance A road map to the current challenges and available opportunities for the research and development of Prognostics and Health Management (PHM), this important work covers all areas of electronics and explains how to: assess methods for damage estimation of components and systems due to field loading conditions assess the cost and benefits of prognostic implementations develop novel methods for in situ monitoring of products and systems in actual life-cycle conditions enable condition-based (predictive) maintenance increase system availability through an extension of maintenance cycles and/or timely repair actions; obtain knowledge of load history for future design, qualification, and root cause analysis reduce the occurrence of no fault found (NFF) subtract life-cycle costs of equipment from reduction in inspection costs, downtime, and inventory Prognostics and Health Management of Electronics also explains how to understand statistical techniques and machine learning methods used for diagnostics and prognostics. Using this valuable resource, electrical engineers, data scientists, and design engineers will be able to fully grasp the synergy between IoT, machine learning, and risk assessment.

In the paper, the author discusses, interprets, and illustrates the Birnbaum measure of the importance of each component in a coherent system. It is shown how this measure of component importance can be used to determine system reliability growth from component reliability growth. Finally, an algorithm is illustrated to calculate the optimum amount of effort to expend on improving

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individual component reliabilities so as to achieve a desired system reliability growth at minimum total cost for reliability growth.

(Modified author abstract).

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