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This swing towards mass adoption highlights the fact that most practicing engineers either lack the professional training resources to pivot into a career in designing EV systems. How can EEs keep up ...

Bridging the EV Engineering Skills Gap

Fluke Reliability, a Fluke Corporate company, has announced a partnership with RS

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Components to offer eMaint computerised maintenance management system (CMMS) software. Adding the CMMS, RS provides a ...

CMMS software for maintenance solutions to enhance reliability workflows

Scott Manson of SEL describes the challenges posed by electric resiliency, cybersecurity and a fragile grid. He explains how microgrids can help.

What Needs to Done to Move the Microgrid Industry Forward? Q&A with SEL

Introduction to design of reinforced ...

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Examines probabilistic analysis of engineering systems including first-order methods, Monte Carlo simulation, and time-to-failure analysis. Reliability ...

Structural Engineering Focus—Online MS

This book is a comprehensive introduction to the mechanical properties of ceramics, and is designed primarily as a textbook for undergraduate and graduate students in materials science and engineering ...

An Introduction to the Mechanical Properties of Ceramics

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As companies look for ways to respond to incidents in their complex microservices-driven software stacks, SREs – site reliability engineers – are left to deal with the issues involved in making ...

Rootly nabs \$3.2M seed to build SRE incident management solution inside Slack

1 is a particularly well-written introduction to ... Figure 2 is a solution for legacy systems and is not typical for new systems, which are the main subject of this series of papers. Security and ...

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Achieving full MCU partition isolation: Fundamentals

Panelists at Farnborough Connect webinar say progress will be made despite considerable technological challenges ...

Plea for industry to collaborate on green targets

Monte Carlo, the data reliability company, today released Incident IQ, a new suite of capabilities that help data engineers better pinpoint, address, and resolve data downtime at scale through the ...

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Monte Carlo Launches Incident IQ To Help Organizations Achieve End-to-End Data Trust

Data teams using Monte Carlo's Data Observability Platform can collaboratively identify, alert on, and remediate the root cause of data issues.

Monte Carlo Releases Incident IQ for End-to-End Data Trust

Introduction to probability, statistics, and uncertainty analysis with examples from civil engineering (e.g. models of vehicle arrivals, structural reliability ... is to provide innovative and ...

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Structural Engineering: Hazard Analysis—Graduate Certificate

Maxeon Solar Technologies, Ltd.

(NASDAQ:MAXN), a global leader in solar innovation and channels, today announces the extension of its AC Energy Solutions with the launch of the new Performance 3 AC ...

Maxeon Solar Technologies Extends its AC Energy Solutions Portfolio Further Advancing its "Beyond the Panel" Strategy

Micross Components ("Micross"), a leading provider of high-reliability microelectronic

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product and service solutions for aerospace, defense, space, medical and ...

Micross Components Acquires Semi Dice, a global provider of high-reliability die & wafer products and value-added services

Data Center Frontier in partnership with Pkaza post some of the hottest data center jobs in the market. Find your next job here!

Data Center Jobs: Construction and Engineering Positions Available in Major Markets

Mentor's Chris Spear provides an introduction

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to SystemVerilog Multidimensional Arrays ...
Fraunhofer IIS/EAS' Roland Jancke points to
why reliability of electronics is critical
and how ...

Blog Review: June 17

Burns & McDonnell, Entergy start aerial work
to build 230-kV transmission line through
Louisiana marshes | Power Engineering | News
...

**Burns & McDonnell, Entergy start aerial work
to build 230-kV transmission line through
Louisiana marshes**

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Japan's Hitachi on Wednesday said that it has completed the acquisition of US-headquartered digital engineering services company GlobalLogic for \$9.6 billion. The acquisition will help the company ...

Hitachi completes \$9.6 bn acquisition of GlobalLogic; to expand digital operations

In this keynote session, Tony Redmond will look at the economics, software engineering, ecosystem, and landscape of Microsoft 365 and discuss the reliability ... will be an introduction to the ...

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Semperis Announces Full Lineup of Speakers at Award-Winning Hybrid Identity Protection Conference, Europe

Nokia Corporation NOK inked a multi-year subscription contract with a leading supplier of robot-based automation solutions – KUKA – to install ... critical coverage and capacity, with utmost ...

Nokia (NOK) to Power KUKA Automation Solutions With 5G Network

The City Council approved a switch to Google email and cloud-based storage for its employees, in the hopes of assuring better

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In a very readable manner, this text provides an integrated introduction to the theory and practice of reliability engineering from an interdisciplinary viewpoint. Reliability concepts are presented in a careful self-contained manner and related to the issue of engineering practice--the setting of design criteria, the accumulation of test and field data, the determination of design margins,

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and maintenance procedures and the assessment of safety hazards. The reliability characteristics of a wide spectrum of engineering systems are compared and contrasted for failures ranging in consequence from inconvenience to grave threats to public safety. Presents reliability concepts rigorously, but care is taken in presenting the mathematics clearly for students who have had no courses in probability or statistics.

Many books on reliability focus on either modeling or statistical analysis and require

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an extensive background in probability and statistics. Continuing its tradition of excellence as an introductory text for those with limited formal education in the subject, this classroom-tested book introduces the necessary concepts in probability and statistics within the context of their application to reliability. The Third Edition adds brief discussions of the Anderson-Darling test, the Cox proportionate hazards model, the Accelerated Failure Time model, and Monte Carlo simulation. Over 80 new end-of-chapter exercises have been added, as well as solutions to all odd-numbered exercises.

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Moreover, Excel workbooks, available for download, save students from performing numerous tedious calculations and allow them to focus on reliability concepts. Ebeling has created an exceptional text that enables readers to learn how to analyze failure, repair data, and derive appropriate models for reliability and maintainability as well as apply those models to all levels of design.

Using an interdisciplinary perspective, this outstanding book provides an introduction to the theory and practice of reliability

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engineering. This revised edition contains a number of improvements: new material on quality-related methodologies, inclusion of spreadsheet solutions for certain examples, a more detailed treatment which ties the load-capacity approach to reliability to failure rate methodology; a new section dealing with safety hazards of products and equipment.

The overwhelming majority of a software system's lifespan is spent in use, not in design or implementation. So, why does conventional wisdom insist that software engineers focus primarily on the design and

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development of large-scale computing systems? In this collection of essays and articles, key members of Google's Site Reliability Team explain how and why their commitment to the entire lifecycle has enabled the company to successfully build, deploy, monitor, and maintain some of the largest software systems in the world. You'll learn the principles and practices that enable Google engineers to make systems more scalable, reliable, and efficient—lessons directly applicable to your organization. This book is divided into four sections: Introduction—Learn what site reliability engineering is and why it differs

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from conventional IT industry practices
Principles—Examine the patterns, behaviors, and areas of concern that influence the work of a site reliability engineer (SRE)
Practices—Understand the theory and practice of an SRE's day-to-day work: building and operating large distributed computing systems
Management—Explore Google's best practices for training, communication, and meetings that your organization can use

This book is about basic reliability models, data collection and empirical methods, reliability testing, reliability growth

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testing. Identifying failure and repair distributions will help all beginners who want to learn about Reliability and Maintainability Engineerin

eliability and safety are fundamental attributes of any modern technological system. To achieve this, diverse types of protection barriers are placed as safeguards from the hazard posed by the operation of the system, within a multiple-barrier design concept. These barriers are intended to

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protect the system from failures of any of its elements, hardware, software, human and organizational. Correspondingly, the quantification of the probability of failure of the system and its protective barriers, through reliability and risk analyses, becomes a primary task in both the system design and operation phases. This exercise book serves as a complementary tool supporting the methodology concepts introduced in the books "An introduction to the basics of reliability and risk analysis" and "Computational methods for reliability and risk analysis" by Enrico Zio, in that it

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gives an opportunity to familiarize with the applications of classical and advanced techniques of reliability and risk analysis. This book is also available as a set with Computational Methods for Reliability and Risk Analysis and An Introduction to the Basics of Reliability and Risk Analysis.

Drawing of real-world issues and with supporting data from industry, this book overviews the technique and equipment available to engineers and scientists to identify the solutions of the physical essence of engineering problems in

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simulation, accelerated testing, prediction, quality improvement, and risk during the design, manufacturing, and maintenance stages. For this goal the book integrates Quality Improvement and Accelerated Reliability/ Durability/ Maintainability/Test Engineering concepts. Accelerated Quality and Reliability Solutions includes new and unpublished aspects in quality: - complex analysis of factors that influence product quality, and other quality development and improvement problems during design and manufacturing ; in simulation: - the strategy for development of accurate physical

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simulation of field input influences on the actual product – a system of control for physical simulation of the random input influences – a methodology for selecting a representative input region for accurate simulation of the field conditions; in testing: - useful accelerated reliability testing (UART) – accelerated multiple environmental testing technology – trends in development of UART technology; in studying climate and reliability; in prediction: - accurate prediction (AP) of reliability, durability, and maintainability - criteria of AP - development of techniques, etc.. The

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book includes new and effective aspects integration of quality, reliability, and maintainability. Other key features: Includes aspects of quality integrated with reliability which can help to solve earlier inaccessible problems during design, manufacturing, and usage Develops a new approach to improving the engineering culture for solving quality and reliability problems. Enables the accurate prediction of quality, reliability, durability, and maintainability Proposes strategies for accelerated quality, reliability, durability, and maintainability improvement and development Combines new

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techniques with equipment for accurate physical simulation of field situation (mechanical, electrical, multi-environmental, and other influences, as well as human and other factors) for development accelerated testing (including reliability testing) and research

Overviews the latest techniques in physical simulation; accelerated testing; prediction of reliability, durability, and maintainability; quality development and improvement; safety aspects of risk assessment, especially for transportation

Supported by real life examples and industry data Deals with the latest techniques in

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physical simulation, accelerated testing, prediction of reliability, durability, maintainability, quality development and safety aspects of risk assessment Provides step-by-step guidance on the accurate prediction of quality factors, the physical simulation of field situations and of accelerated reliability testing Dramatically reduces recalls by solving product improvement problems through the integration of quality development with reliability

Outlines the correct procedures for doing FMEAs and how to successfully apply them in

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design, development, manufacturing, and service applications There are a myriad of quality and reliability tools available to corporations worldwide, but the one that shows up consistently in company after company is Failure Mode and Effects Analysis (FMEA). Effective FMEAs takes the best practices from hundreds of companies and thousands of FMEA applications and presents streamlined procedures for veteran FMEA practitioners, novices, and everyone in between. Written from an applications viewpoint—with many examples, detailed case studies, study problems, and tips

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included—the book covers the most common types of FMEAs, including System FMEAs, Design FMEAs, Process FMEAs, Maintenance FMEAs, Software FMEAs, and others. It also presents chapters on Fault Tree Analysis, Design Review Based on Failure Mode (DRBFM), Reliability-Centered Maintenance (RCM), Hazard Analysis, and FMECA (which adds criticality analysis to FMEA). With extensive study problems and a companion Solutions Manual, this book is an ideal resource for academic curricula, as well as for applications in industry. In addition, Effective FMEAs covers: The basics of FMEAs

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and risk assessment How to apply key factors for effective FMEAs and prevent the most common errors What is needed to provide excellent FMEA facilitation Implementing a "best practice" FMEA process Everyone wants to support the accomplishment of safe and trouble-free products and processes while generating happy and loyal customers. This book will show readers how to use FMEA to anticipate and prevent problems, reduce costs, shorten product development times, and achieve safe and highly reliable products and processes.

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