

Designing High Availability Systems Dfss And Clical Reliability Techniques With Practical Real Life Examples

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Designing High Availability Systems is an indispensable working resource for system engineers, software/hardware architects, and project teams working in all industries. Author Bios ZACHARY TAYLOR is a Systems Architect at Nokia Solutions & Networks with over thirty years' experience designing high availability and mission critical systems at GE, Lockheed Martin, and Motorola.

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A practical, step-by-step guide to designing world-class, high availability systems using both classical and DFSS reliability techniques Whether designing telecom, aerospace, automotive, medical, financial, or public safety systems, every engineer aims for the utmost reliability and availability in the systems he, or she, designs. But between the dream of world-class performance and reality falls the shadow of complexities that can bedevil even the most rigorous design process. While there are an array of robust predictive engineering tools, there has been no single-source guide to understanding and using them . . . until now. Offering a case-based approach to designing, predicting, and deploying world-class high-availability systems from the ground up, this book brings together the best classical and DFSS reliability techniques. Although it focuses on technical aspects, this guide considers the business and market constraints that require that systems be designed right the first time. Written in plain English and following a step-by-step "cookbook" format, Designing High Availability Systems: Shows how to integrate an array of design/analysis tools, including Six Sigma, Failure Analysis, and Reliability Analysis Features many real-life examples and case studies describing predictive design methods, tradeoffs, risk priorities, "what-if" scenarios, and more Delivers numerous high-impact takeaways that you can apply to your current projects immediately Provides access to MATLAB programs for simulating problem sets presented, along with PowerPoint slides to assist in outlining the problem-solving process Designing High Availability Systems is an indispensable working resource for system engineers, software/hardware architects, and project teams working in all industries.

This book constitutes the refereed proceedings of the 13th IFIP WG 6.1 International Conference on Distributed Applications and Interoperable Systems, DAIS 2013, held in Florence, Italy, in June 2013, as part of the 8th International Federated Conference on Distributed Computing Techniques, DisCoTec 2013. The 12 revised full papers and 9 short papers presented were carefully reviewed and selected from 42 submissions. The papers present state-of-the-art research results and case studies in the area of distributed applications and interoperable systems focussing on cloud computing, replicated storage, and peer-to-peer computing.

The Practical, Example-Rich Guide to Building Better Systems, Software, and Hardware with DFSS Design for Six Sigma (DFSS) offers engineers powerful opportunities to develop more successful systems, software, hardware, and processes. In Applying Design for Six Sigma to Software and Hardware Systems , two leading experts offer a realistic, step-by-step process for succeeding with DFSS. Their clear, start-to-finish roadmap is designed for successfully developing complex high-technology products and systems that require both software and hardware development. Drawing on their unsurpassed experience leading Six Sigma at Motorola, the authors cover the entire project lifecycle, from business case through scheduling, customer-driven requirements gathering through execution. They provide real-world examples for applying their techniques to software alone, hardware alone, and systems composed of both. Product developers will find proven job aids and specific guidance about what teams and team members need to do at every stage. Using this book ' s integrated, systems approach, marketers, software professionals, and hardware developers can converge all their efforts on what really matters: addressing the customer ' s true needs. Learn how to Ensure that your entire team shares a solid understanding of customer needs Define measurable critical parameters that reflect customer requirements Thoroughly assess business case risk and opportunity in the context of product roadmaps and portfolios Prioritize development decisions and scheduling in the face of resource constraints Flow critical parameters down to quantifiable, verifiable requirements for every sub-process, subsystem, and component Use predictive engineering and advanced optimization to build products that robustly handle variations in manufacturing and usage Verify system capabilities and reliability based on pilots or early production samples Master new statistical techniques for ensuring that supply chains deliver on time, with minimal inventory Choose the right DFSS tools, using the authors ' step-by-step flowchart If you ' re an engineer involved in developing any new technology solution, this book will help you reflect the real Voice of the Customer, achieve better results faster, and eliminate fingerpointing. About the Web Site The accompanying Web site, sigmaexperts.com/dfss, provides an interactive DFSS flowchart, templates, exercises, examples, and tools.

In modern industries, electrical energy conversion systems consist of two main parts: electrical machines and power electronic converters. With global electricity use at an all-time high, uninterrupted operation of electrical power converters is essential. Reliability in Power Electronics and Electrical Machines: Industrial Applications and Performance Models provides an in-depth analysis of reliability in electrical energy converters as well as strategies for designing dependable power electronic converters and electrical machines. Featuring a comprehensive discussion on the topics of reliability design and measurement, failure mechanisms, and specific issues pertaining to quality, efficiency, and durability, this timely reference source offers practical examples and research-based results for use by engineers, researchers, and advanced-level students.

Historically, the integration of manufacturing methodologies into the office environment has proven to be problematic. Part of the difficulty lies in the fact that process workflows tend to be globally dispersed and thus rely heavily on information technology. But in complex service systems that contain a mix of employees, consultants, and technology, standardized protocols have been shown to reduce cycle time and transactional cost as well as improve quality. The successful application of Lean methodologies to improve process workflows is an efficient way to simplify operations and prevent mistakes. In Lean Six Sigma for the Office , Six Sigma guru James Martin presents proven modifications that can be deployed in offices, particularly those offices involved with global operations. Making use of Kaizen and Six Sigma concepts, along with Lean manufacturing principles, this book instructs managers on how they can improve operational efficiency and increase customer satisfaction. The author brings experience gleaned from his application of these methodologies in a myriad of industries to create a practical and hands-on reference for the office environment. Using a detailed sequence of activities, including over 140 figures and tables as well as checklists and evaluation tools, he demonstrates how to realize the rapid improvement of office operations, and how to eliminate unnecessary tasks through value stream mapping (VSM). The book also emphasizes the importance of strategic alignment of Kaizen events and the impact of organizational culture on process improvement activities. Latter chapters in the book discuss key elements of a change model in the context of transitional improvements as they relate to the process owner and local work team. By applying the proven principles found in this book, effective and sustainable organizational change can be accomplished, efficiency can be improved, and mistakes can be eliminated. This 2nd edition provides insight into the new tools and methods Lean Six Sigma process improvement professionals need to improve customer experience and increase productivity within high transaction processes across complex information technology ecosystems. It is one-stop self-contained reference for the application of Lean Six Sigma methods enhanced by powerful approaches for process improvement in highly complex service processes. Several new leading-edge topics are integrated into this new edition, such as: •The "voice of " customers, suppliers, employees and partners • Design Thinking Alignment • Ecosystems in Information Technology • Metadata Definition and Lineage • Information Quality Governance • Big Data Collection and Analytics • Mapping High Volume Transactions through Systems • Robotic Process Automation Applications • Automating for Solution Sustainability • Governing Organizations • Data Privacy (General Data Protection Regulation)

A roadmap to consistent, high-quality service for any organization A service is typically something created to serve a paying customer, whether internal or external. Some services consist of several processes linked together while others consist of a single process. This book introduces Design for Six Sigma (DFSS), an easy-to-master, yet highly effective data-driven method that prevents defects in any type of service process. The particular focus of this publication is service DFSS, which leads to what the authors term "a whole quality business," one that takes a proactive stance and gets things right the first time. Not only does the whole quality business produce a high-quality product and offer high-quality services, but it also operates at lower cost and higher efficiency, throughout the entire life cycle, than its competitors because all the links in the supply chain are optimized. Following a detailed overview that sets forth the basic premise and key concepts of service DFSS, the authors offer all the information and tools needed to take advantage of service DFSS within their own organizations, including: * Clear and in-depth coverage of the philosophical, organizational, and technical aspects of service DFSS * Step-by-step roadmap of the entire service DFSS deployment and execution process * Full discussions of all the key methods involved in service DFSS, including axiomatic design, design for X, the theory of inventive problem solving (TRIZ), transfer function, design scorecards, and Taguchi's method * Practical, illustrative examples that demonstrate how the theory is put into practice * Assistance in developing the necessary skills in applying DFSS in organizational settings Problems and their solutions are provided at the end of each chapter to help readers grasp the key concepts they need to move forward in the text. Acclaro DFSS Light(r), a Java-based software package that implements axiomatic design processes discussed in Chapter Eight, is available for download from an accompanying Wiley ftp site. Acclaro DFSS Light(r) is a software product of Axiomatic Design Solutions, Inc. This book is ideal as a reference to service DFSS for corporate executives, quality control managers, and process engineers, or as a complete training manual for DFSS teams. It is also a superior textbook for graduate students in management, operations, and quality assurance.

This book integrates key tools and processes into a comprehensive program for developing more robust and reliable technology-based products. Drawing on their extensive product development experience, the authors present a complete process for ensuring product performance throughout the entire lifecycle, from understanding customers' needs through manufacturing and post-launch support. The authors begin by presenting broad insights and high-level strategies for improving product quality. Next, they demonstrate how to implement robustness and reliability strategies that complement existing governance and decision processes. A section on tools and methods shows how to institutionalize best practices and apply them consistently. Finally, they tie strategies, decisions, and methods together through a case study project. Product developers will learn how to Understand critical drivers of value in technology products, including reliability and durability Implement a process model and roadmap for improving reliability and robustness Increase robustness early in development, leading to shorter cycle times in later phases Improve the stability of production performance under stress conditions Assess both organizational and process capabilities for delivering robust and reliable products Understand and manage customer-driven requirements Use tools including descriptive and inferential statistics and DOE-based empirical models Managers will understand expectations for Design concepts supported by rigorous analyses of alternatives Products and processes delivering higher value to customers Products with higher reliability and longer useful lives Product processes with lower costs and higher capabilities Development projects having shorter, more predictable cycle times Readers are introduced to many thought leaders whose writings can be sources of further learning. This book is a valuable resource for anyone responsible for delivering reliable, profitable technology products, including general managers, program managers, engineers, scientists, and reliability and quality professionals.

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