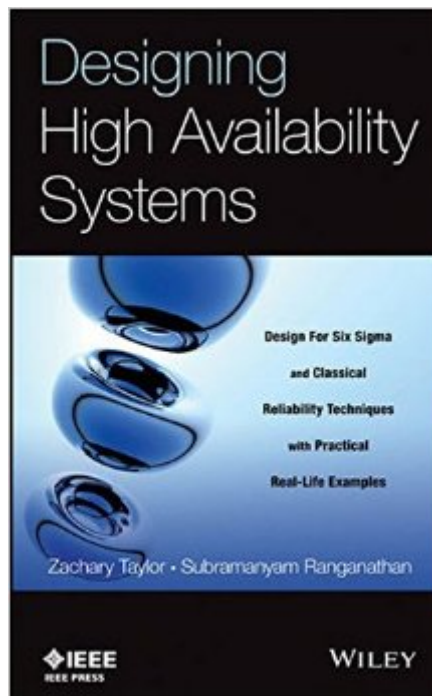


The book was found

# Designing High Availability Systems: DFSS And Classical Reliability Techniques With Practical Real Life Examples



## Synopsis

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.

## Book Information

Hardcover: 480 pages

Publisher: Wiley-IEEE Press; 1 edition (October 28, 2013)

Language: English

ISBN-10: 1118551125

ISBN-13: 978-1118551127

Product Dimensions: 6.4 x 1.1 x 9.6 inches

Shipping Weight: 2.6 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars [See all reviews](#) (4 customer reviews)

Best Sellers Rank: #553,505 in Books (See Top 100 in Books) #114 in [Books > Business & Money > Management & Leadership > Quality Control & Management > Six Sigma](#) #1113 in [Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics](#)

## Customer Reviews

By chance got this book from friend. This is the one of the best book that I have read in terms of incorporating the six sigma quality methods into real product design. In the past, Six sigma always give me the impression that it could only be used for process improvement. In this book, the authors open people's mind to think how to build the quality into the product instead of testing for quality by using different kind of quality tools/technics. It is the book that worth being read.

I think this book has some special character, as it successfully combines the theory and the application of the theory with some useful examples, and even provides some Matlab code that the reader can readily apply in the learning process, as well as, when applying the learnings in his/her daily work. I can highly recommend this book, as it fills the gap in the reliability literature. Quite many good references on reliability theory has been published, but this book takes the next step, and demonstrates, which are the limitations of the theory, and how the reader can apply these methods in his/her daily duties.

The authors present several key DFSS tools and detailed step-by-step procedures for applying these tools effectively to your projects. With a case-based approach, they have explained how to design and maximize system availability using these DFSS reliability techniques. The enterprise can significantly cut down cost of poor quality and customer reported defects after system deployments. I found the discussion on DFMEA tools in particular extremely useful and thought provoking.

This book provides many detailed explanations and demonstrations of useful tools and techniques which can be employed for designing high availability systems. The mathematical treatment of classical reliability techniques is quite thorough. DFSS techniques are then introduced with useful examples and are graded in complexity from a subject matter standpoint. Overall, it is an excellent read for engineering experts as well as practitioners to learn and apply a rich set of techniques to design systems that require high availability.

[Download to continue reading...](#)

Designing High Availability Systems: DFSS and Classical Reliability Techniques with Practical Real Life Examples High Availability for the LAMP Stack: Eliminate Single Points of Failure and Increase Uptime for Your Linux, Apache, MySQL, and PHP Based Web Applications IBM Z/Os V2r1

Communications Server Tcp/Ip Implementation: High Availability, Scalability, and Performance The Real Book of Real Estate: Real Experts. Real Stories. Real Life Confessions of a Real Estate Entrepreneur: What It Takes to Win in High-Stakes Commercial Real Estate: What it Takes to Win in High-Stakes Commercial Real Estate Corporate Taxation: Examples And Explanations (Examples & Explanations) Reliability of Computer Systems and Networks: Fault Tolerance, Analysis, and Design Site Reliability Engineering: How Google Runs Production Systems IBM System P5 Approaches to 24x7 Availability Including Aix 5l Hard Real-Time Computing Systems: Predictable Scheduling Algorithms and Applications (Real-Time Systems Series) Real-Time Systems: Design Principles for Distributed Embedded Applications (Real-Time Systems Series) Gardening For Entrepreneurs: Gardening Techniques For High Yield, High Profit Crops (Farming For Profit, Gardening For Profit, High Yield Gardening) Export & Import - Winning in the Global Marketplace: A Practical Hands-On Guide to Success in International Business, with 100s of Real-World Examples Software Safety and Reliability: Techniques, Approaches, and Standards of Key Industrial Sectors Real-Time Systems and Programming Languages: Ada, Real-Time Java and C/Real-Time POSIX (4th Edition) (International Computer Science Series) Designing Large Real-Time Systems With Ada Solar Electricity Handbook: 2016 Edition: A simple, practical guide to solar energy - designing and installing solar PV systems Solar Electricity Handbook - 2014 Edition: A Simple Practical Guide to Solar Energy - Designing and Installing Photovoltaic Solar Electric Systems Classical Themes for Chromatic Harmonica: +Audio Examples + Harmonica Tabs Real Estate: 25 Best Strategies for Real Estate Investing, Home Buying and Flipping Houses (Real Estate, Real Estate Investing, home buying, flipping houses, ... income, investing, entrepreneurship)

[Dmca](#)