

Engineering Robust Designs

WITH AN AFTERWORD

John X. Wang



How Learning
Mechanical Engineering
Works
The Engineer's Toolkit

Engineering Robust Designs With Six Sigma

John X. Wang



Engineering Robust Designs With Six Sigma:

Engineering Robust Designs with Six Sigma John X. Wang, 2005 Dr Wang's work is of the highest caliber He has the ability to take very complex subjects and to present them very clearly He makes excellent use of examples throughout the book Donald W Sova Ph D Booz Allen Hamilton I have not seen a text that provides such broad coverage of the topic The foremost feature of this is competitive advantage This product should provide superior utility at a lower cost to both the consumer and to the producer Competitive advantage is rapidly becoming a necessity to stay in the game Jeffrey B Lynch Northrop Grumman Corporation Few if any other people have the experience in both quality engineering Six Sigma and in product engineering that could match Dr Wang's A great deal of the unique value of this book is the integration of ideas from these two disciplines Marvin L Roush Professor Emeritus University of Maryland at College Park Leverage Six Sigma to Transform Product Design and Development Today's customers demand unprecedented reliability efficiency flexibility and affordability To deliver products this robust quality manufacturing isn't enough Six Sigma processes must begin in the earliest stages of design Now one of the field's leading experts offers the first complete blueprint for implementing Six Sigma product design John X Wang has transformed product design at companies ranging from Maytag and Visteon to General Electric In this book he illuminates the full spectrum of proven techniques from Voice of Customer VOC and Critical to Quality CTQ to Kano modeling You'll discover how Six Sigma can bridge critical gaps between research and development product and process and how it can help you quickly respond to any change from new suppliers to emerging customer requirements Topics covered include Starting out identifying projects organizing teams developing VOC models formulating CTQ characteristics Creating robust design concepts principles practical techniques and engineering parameters Kano modeling delighting customers and responding to their evolving requirements QFD building a house of quality that reflects both spoken and unspoken customer needs Failure Mode and Effect Analysis FMEA preventing failures mitigating risks Minimizing lifecycle cost through effective tolerance design Designing in long term reliability If you're an engineer manager or quality professional who's ready to drive breakthrough improvements in product design and development Dr John X Wang will guide you every step of the way to success

Robust Design For Quality Engineering And Six Sigma Sung Hyun Park, Jiju Antony, 2008-09-26 This book is written primarily for engineers and researchers who use statistical robust design for quality engineering and Six Sigma and for statisticians who wish to know about the wide range of applications of experimental design in industry It is a valuable guide and reference material for students managers quality improvement specialists and other professionals interested in Taguchi's robust design methods as well as the implementation of Six Sigma This book can also be useful to those who would like to learn about the role of Robust Design within the Six Sigma Improve phase methodology and Design for Six Sigma DFSS Optimize methodology It combines classical experimental design methods with those of Taguchi's robust designs demonstrating their prowess in DFSS and suggesting new directions for the

development of statistical design and analysis Lean Six Sigma and Statistical Tools for Engineers and Engineering Managers Wei Zhan,Xuru Ding,2015-11-16 The book focuses on the introduction of the basic concepts processes and tools used in Lean Six Sigma A unique feature is the detailed discussion on Design for Six Sigma aided by computer modeling and simulation The authors present several sample projects in which Lean Six Sigma and Design for Six Sigma were used to solve engineering problems or improve processes based on their own research and development experiences in engineering design and analysis This book is intended to be a textbook for advanced undergraduate students graduate students in engineering and mid career engineering professionals It can also be a reference book or be used to prepare for the Six Sigma Green Belt and Black Belt certifications by organizations such as American Society for Quality **Six Sigma for Technical Processes** Clyde M. Creveling,2002-10-22 Use Six Sigma to achieve and sustain excellence in product development and commercialization To sustain growth and profitability companies must tightly align product development and commercialization to fast changing customer requirements In this book Clyde Creveling identifies the four process areas most crucial to doing so and shows executives and managers how to optimize each of them Creveling introduces a Six Sigma enabled workflow that encompasses strategic product technology portfolio definition and development research and technology development R TD tactical design engineering processes for commercialization and operational production and service support He presents tools methods and best practices for selecting the right projects prioritizing them and executing them rapidly consistently and successfully Integrate all key technical processes so they work together in harmony Create Phase Gate control plans for delivering products with minimal risk Establish scorecards for risk management in technical processes Use Six Sigma tools such as Monte Carlo and FMEA to improve project management Bring discipline to your product and technology portfolio renewal processes Systematically optimize your commercialization processes Define stripped down Fast Track processes for commercializing high risk high reward opportunities Provide effective operational support after you launch your product Preview the future of lean and Six Sigma in technical processes Use lean techniques to streamline repeatable processes such as R D product design and post launch production engineering support Learn how to manage the risk of doing a fast track commercialization project when you really must cut corners to get a product out into the market before your opportunity evaporates Foreword by John Boselli xiii Preface xv About the Author xxi Chapter 1 Introduction to Six Sigma for Technical Processes 1 Chapter 2 Scorecards for Risk Management in Technical Processes 21 Chapter 3 Project Management in Technical Processes 35 Chapter 4 Strategic Product and Technology Portfolio Renewal Process 51 Chapter 5 Strategic Research and Technology Development Process 95 Chapter 6 Tactical Product Commercialization Process 163 Chapter 7 Fast Track Commercialization 275 Chapter 8 Operational Post Launch Engineering Support Processes 293 Chapter 9 Future Trends in Six Sigma and Technical Processes 317 Glossary 323 Index 351

Robust Design Methodology for Reliability Bo Bergman,Jacques de Mare,Thomas Svensson,Sara Loren,2009-08-18

Based on deep theoretical as well as practical experience in Reliability and Quality Sciences Robust Design Methodology for Reliability constructively addresses practical reliability problems It offers a comprehensive design theory for reliability utilizing robust design methodology and six sigma frameworks In particular the relation between un reliability and variation and uncertainty is explored and reliability improvement measures in early product development stages are suggested Many companies today utilise design for Six Sigma DfSS for strategic improvement of the design process but often without explicitly describing the reliability perspective this book explains how reliability design can relate to and work with DfSS and illustrates this with real world problems The contributors advocate designing for robustness i e insensitivity to variation in the early stages of product design development Methods for rational treatment of uncertainties in model assumptions are also presented This book promotes a new approach to reliability thinking that addresses the design process and proneness to failure in the design phase via sensitivity to variation and uncertainty includes contributions from both academics and industry practitioners with a broad scope of expertise including quality science mathematical statistics and reliability engineering takes the innovative approach of promoting the study of variation and uncertainty as a basis for reliability work includes case studies and illustrative examples that translate the theory into practice Robust Design Methodology for Reliability provides a starting point for new thinking in practical reliability improvement work that will appeal to advanced designers and reliability specialists in academia and industry including fatigue engineers product development and process quality professionals especially those interested in and or using the DfSS framework

Design for Six Sigma Greg Brue, Robert Launsby, 2003-02-22 THE BRIEFCASE BOOKS SERIES Now translated into 11 languages This reader friendly icon rich series is must reading for all managers at every level All managers whether brand new to their positions or well established in the corporate hierarchy can use a little brushing up now and then The skills based Briefcase Books series is filled with ideas and strategies to help managers become more capable efficient effective and valuable to their corporations DESIGN FOR SIX SIGMA Six Sigma has revolutionized the ways in which companies meet and beat today s stringent quality expectations But achieving Six Sigma results first requires Six Sigma building blocks Design for Six Sigma unveils a systematic methodology for enabling the design of products services and processes to meet Six Sigma quality levels Designed to be easily read and implemented this concise Briefcase Book shows managers at all levels how to include Six Sigma at the earliest stages of virtually any manufacturing process Here are DFSS s techniques for Optimizing the design process to achieve Six Sigma performance Integrating Six Sigma from the outset of new product development Self examinations explanatory sidebars and chapter ending checklists

Reliability and Robust Design in Automotive Engineering ,2004

Industrial Design Engineering John X. Wang, 2017-02-03 Designing new products and improving existing ones is a continual process Industrial design engineering is an industrial engineering process applied to product designs that are to be manufactured through techniques of production operations Excellent industrial design engineering programs are essential

for the nation's industry to succeed in selling useful and ecologically justifiable and usable products on a market flooded with goods and services. This unique text on industrial design engineering integrates basic knowledge, insight, and working methods from industrial engineering and product design subjects. *Industrial Design Engineering: Inventive Problem Solving* provides a combination of engineering thinking and design skills that give the researchers, practitioners, and students an excellent foundation for participation in product development projects and techniques for establishing and managing such projects. The design principles are presented around examples related to the designing of products, goods, and services. Case studies are developed around real problems and are based on the customer's needs.

Design of Biomedical Devices and Systems, 4th edition Paul H. King, Richard C. Fries, Arthur T. Johnson, 2018-10-03. This fourth edition is a substantial revision of a highly regarded text intended for senior design capstone courses within departments of biomedical engineering, bioengineering, biological engineering, and medical engineering worldwide. Each chapter has been thoroughly updated and revised to reflect the latest developments. New material has been added on entrepreneurship, bioengineering design, clinical trials, and CRISPR. Based upon feedback from prior users and reviews, additional and new examples and applications such as 3D printing have been added to the text. Additional clinical applications were added to enhance the overall relevance of the material presented. Relevant FDA regulations and how they impact the designer's work have been updated. Features provide updated material as needed to each chapter. Incorporates new examples and applications within each chapter. Discusses new material related to entrepreneurship, clinical trials, and CRISPR. Relates critical new information pertaining to FDA regulations. Presents new material on discovery of projects worth pursuing and design for health care for low resource environments. Presents multiple case examples of entrepreneurship in this field. Addresses multiple safety and ethical concerns for the design of medical devices and processes.

Medical Device Design for Six Sigma Basem El-Haik, Khalid S. Mekki, 2011-09-20. The first comprehensive guide to the integration of Design for Six Sigma principles in the medical devices development cycle. *Medical Device Design for Six Sigma: A Road Map for Safety and Effectiveness* presents the complete body of knowledge for Design for Six Sigma (DFSS) as outlined by the American Society for Quality and details how to integrate appropriate design methodologies up front in the design process. DFSS helps companies shorten lead times, cut development and manufacturing costs, lower total life cycle cost, and improve the quality of the medical devices. Comprehensive and complete with real-world examples, this guide integrates concept and design methods such as Pugh Controlled Convergence approach, QFD methodology, parameter optimization techniques like Design of Experiment (DOE), Taguchi Robust Design method, Failure Mode and Effects Analysis (FMEA), Design for X, Multi-Level Hierarchical Design methodology, and Response Surface methodology. Covers contemporary and emerging design methods including Axiomatic Design Principles, Theory of Inventive Problem Solving (TRIZ), and Tolerance Design. Provides a detailed step-by-step implementation process for each DFSS tool included. Covers the structural, organizational, and technical deployment of DFSS.

within the medical device industry Includes a DFSS case study describing the development of a new device Presents a global prospective of medical device regulations Providing both a road map and a toolbox this is a hands on reference for medical device product development practitioners product service development engineers and architects DFSS and Six Sigma trainees and trainers middle management engineering team leaders quality engineers and quality consultants and graduate students in biomedical engineering

Robust Engineering, 2002 *Design for Six Sigma* Kai Yang, Basem S. EI-Haik, 2003-05-21 Here s the book that clearly and logically answers the complex question quality managers and product developers face almost every day WHICH PRODUCT DEVELOPMENT TOOLS SHOULD I USE AND WHEN This much needed well written roadmap for robust efficient product development features All the coverage needed to implement six sigma in any manufacturing concern A complete review of both traditional and contemporary design methods Systems discussed include DOE Design Of Experiment Taguchi Method QFD Quality Function Deployment Axiomatic Design and TRIZ Theory for Inventive Problem Solving Practical examples to highlight important elements of each system A unique multi systems approach to designing products incorporating the traditional and contemporary methods discussed detailing how and when to use them Valuable assistance when preparing for certification exams

Reliability and Robust Design in Automotive Engineering 2006, 2006 Collection of papers from the Reliability Robust Design in Automotive Engineering session of the SAE 2006 World Congress held April 3 6 in Detroit Michigan

Design for Six Sigma, Chapter 15 - Design Optimization: Advanced Taguchi Robust Parameter Design Kai Yang, Basem EI-Haik, 2008-08-15 Here is a chapter from an updated Design for Six Sigma Second Edition which has extensive new chapters and learning modules on innovation lean product development computer simulation and critical parameter management plus new thread through case studies This updated edition provides unrivalled real world product development experience and priceless walk throughs that help you choose the right design tools at every stage of product and service development The book includes detailed directions careful comparisons and work out calculations that make every step of the Design for Six Sigma process easier

Lean Manufacturing John X. Wang, 2010-08-12 The delivery of real bottom line results from manufacturing improvements has proven to be much harder than expected for most companies TQM Zero Defect Manufacturing and Business Process Re engineering have dropped off the landscape for taking much too long and failing to deliver the promised results Lean Six Sigma is now experiencing the same f

Robust Engineering, 2003 *IEEE International Engineering Management Conference*, 1995 *Software Design for Six Sigma* Basem S. El-Haik, Adnan Shaout, 2011-02-16 This proposal constitutes an algorithm of design applying the design for six sigma thinking tools and philosophy to software design The algorithm will also include conceptual design frameworks mathematical derivation for Six Sigma capability upfront to enable design teams to disregard concepts that are not capable upfront learning the software development cycle and saving development costs The uniqueness of this book lies in bringing all those methodologies under the umbrella of design and provide detailed

description about how these methods QFD DOE the robust method FMEA Design for X Axiomatic Design TRIZ can be utilized to help quality improvement in software development what kinds of different roles those methods play in various stages of design and how to combine those methods to form a comprehensive strategy a design algorithm to tackle any quality issues in the design stage *Robust Engineering* ,2004 *Statistical Robust Design* Magnus Arner,2014-04-28 A UNIQUELY PRACTICAL APPROACH TO ROBUST DESIGN FROM A STATISTICAL AND ENGINEERING PERSPECTIVE Variation in environment usage conditions and the manufacturing process has long presented a challenge in product engineering and reducing variation is universally recognized as a key to improving reliability and productivity One key and cost effective way to achieve this is by robust design making the product as insensitive as possible to variation With Design for Six Sigma training programs primarily in mind the author of this book offers practical examples that will help to guide product engineers through every stage of experimental design formulating problems planning experiments and analysing data He discusses both physical and virtual techniques and includes numerous exercises and solutions that make the book an ideal resource for teaching or self study Presents a practical approach to robust design through design of experiments Offers a balance between statistical and industrial aspects of robust design Includes practical exercises making the book useful for teaching Covers both physical and virtual approaches to robust design Supported by an accompanying website www.wiley.com/go/robust featuring MATLAB scripts and solutions to exercises Written by an experienced industrial design practitioner This book s state of the art perspective will be of benefit to practitioners of robust design in industry consultants providing training in Design for Six Sigma and quality engineers It will also be a valuable resource for specialized university courses in statistics or quality engineering

The book delves into Engineering Robust Designs With Six Sigma. Engineering Robust Designs With Six Sigma is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Engineering Robust Designs With Six Sigma, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 3: Engineering Robust Designs With Six Sigma in Everyday Life
 - Chapter 4: Engineering Robust Designs With Six Sigma in Specific Contexts
 - Chapter 5: Conclusion
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- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Engineering Robust Designs With Six Sigma.

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