

APPLYING
DESIGN FOR SIX SIGMA
TO SOFTWARE AND
HARDWARE SYSTEMS

Eric Maass | Patricia D. McNair

Applying Design For Six Sigma To Software And Hardware Systems

JL Elias



Applying Design For Six Sigma To Software And Hardware Systems:

Applying Design for Six Sigma to Software and Hardware Systems Eric Maass, Patricia D. McNair, 2009-08-19 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 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 Value

Engineering Synergies with Lean Six Sigma Jay Mandelbaum,Anthony Hermes,Donald Parker,Heather Williams,2017-08-15 Lean Six Sigma LSS Design for Six Sigma DFSS and Value Engineering VE have a proven track record of success for solving problems and improving efficiency Depending on the situation integrating these approaches can provide results that exceed the benefits of each individual approach Value Engineering Synergies with Lean Six Sigma Combini **Systems, Software and Services Process Improvement** Rory V. O'Connor,Mariye Umay Akkaya,Kerem Kemaneci,Murat Yilmaz,Alexander Poth,Richard Messnarz,2015-10-15 This volume constitutes the refereed proceedings of the 22st EuroSPI conference held in Ankara Turkey in September October 2015 The 18 revised papers presented together with 9 selected key notes and workshop papers were carefully reviewed and selected from 49 submissions They are organized in topical sections on SPI themed case studies SPI approaches in safety critical domains SPI in social and organizational issues software process improvement best practices models and optimization approaches in SPI SPI and process assessment creating environments supporting innovation and improvement social aspects of SPI conflicts games gamification and other social approaches risk management and functional safety management **Managing Complexity** Thomas Michael Fehlmann,2017-01-17 The rise of Information and Communication Technology ICT in the second half of the 20th century became the dominant force in economics Its rise accelerates in the first 15 years of this century at an astonishing speed The world of ICT right now is in the process of cosmic inflation In the early universe quantum fluctuations in a microscopic inflationary agile region became the seed for growing structures in the universe of galactic nebula galaxies and stars making the universe transparent This phenomenon familiar to physicist and cosmologists happens right now to ICT The current observation is that things of the physical world become intelligent receive IP addresses and connect to the Internet The possibilities to create new ICT based products seem unlimited however sponsors must fuel the inflation Complexity was already an issue when developing software in the early days of ICT Software development is often done in projects that turn out to be exploratory in the sense that they aim at translating human voices uttering requirements into a machine readable language Requirements for the software to be build are usually not known at the beginning the project must uncover them Developing software without knowing the outcome in advance is a complex undertaking Predicting the outcome of software projects by proven methods of civil engineering did not work out well Now new levels of complexity arise with ICT Agile approaches are appropriate for software development however predicting the outcome of projects still is difficult New techniques must manage the growing levels of complexity within ICT Fortunately mathematics has provided these new techniques They rely on transfer functions and Eigenwert theory Its usefulness already has been proven in major search engines of this century However this is not the end of the story This books makes the mathematics of Lean Six Sigma transfer functions available to ICT practitioners It provides the basic theory explained with many examples and even more suggestions how Six Sigma Transfer Functions help with complex problems **Supply Chain Management** Dr. Md. Mamun Habib,2011-09-12 Supply Chain Management SCM has

been widely researched in numerous application domains during the last decade. Despite the popularity of SCM research and applications, considerable confusion remains as to its meaning. There are several attempts made by researchers and practitioners to appropriately define SCM. Amidst fierce competition in all industries, SCM has gradually been embraced as a proven managerial approach to achieving sustainable profits and growth. This book, *Supply Chain Management Applications and Simulations*, is comprised of twelve chapters and has been divided into four sections. Section I contains the introductory chapter that represents theory and evolution of Supply Chain Management. This chapter highlights chronological prospective of SCM in terms of time frame in different areas of manufacturing and service industries. Section II comprised five chapters those are related to strategic and tactical issues in SCM. Section III encompasses four chapters that are relevant to project and technology issues in Supply Chain. Section IV consists of two chapters which are pertinent to risk managements in supply chain.

Handbook of Advanced Performability Engineering Krishna B. Misra, 2020-11-16. This book considers all aspects of performability engineering providing a holistic view of the activities associated with a product throughout its entire life cycle of the product as well as the cost of minimizing the environmental impact at each stage while maximizing the performance. Building on the editor's previous *Handbook of Performability Engineering*, it explains how performability engineering provides us with a framework to consider both dependability and sustainability in the optimal design of products, systems and services and explores the role of performability in energy and waste minimization, raw material selection, increased production volume and many other areas of engineering and production. The book discusses a range of new ideas, concepts, disciplines and applications in performability including smart manufacturing and Industry 4.0, cyber physical systems and artificial intelligence, digital transformation of railways and asset management. Given its broad scope, it will appeal to researchers, academics, industrial practitioners and postgraduate students involved in manufacturing engineering and system and product development.

Six Sigma Software Quality Improvement Vic Nanda, Jeffrey Robinson, 2011-03-08. Proven techniques for improving software and process quality with Six Sigma. This practical in depth guide explains how to apply Six Sigma to solve common product and process improvement challenges in the software and IT industry. Six Sigma Software Quality Improvement covers Define, Measure, Analyze, Improve and Control (DMAIC), Lean Six Sigma, Design for Six Sigma (DFSS) and Define, Measure, Analyze, Design and Verify (DMADV). Featuring more than 20 success stories from Motorola, IBM, Cisco, Seagate, Xerox, Thomson Reuters, TCS, EMC, Infosys and Convergys, the book offers first hand accounts of corporate Six Sigma programs and explains how these companies are successfully leveraging Six Sigma for software process and quality improvement. The success stories reveal how Motorola minimized business risk before changing business critical applications, TCS improved fraud detection for a global bank, Infosys improved software development productivity for a large multinational bank, IBM reduced help desk escalations and overhead activities, EMC improved development productivity, Motorola realized significant cost avoidance by streamlining processes and project documentation.

Xerox achieved high speed product development Seagate reduced application downtime and improved availability to 99.99% Cisco successfully reinvented its Six Sigma program Convergys injected Six Sigma into the company's DNA Thomson Reuters Six Sigma program gathered significant momentum in a short time Six Sigma was successfully applied in many other projects for defect reduction cycle time reduction productivity improvement and more [The Ten Commandments of Lean Six Sigma](#) Jiju Antony, Vijaya Sunder M, Chad Laux, Elizabeth Cudney, 2019-11-29 Presented from the perspective of practitioners researchers and academics The Ten Commandments of Lean Six Sigma serves as a practical guide for senior managers and executives who want to achieve operational and service excellence in various manufacturing service and public sector organizations **InfoWorld**, 2004-11-22 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects [InfoWorld](#), 2004-09-13 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects **Six Sigma for Medical Device Design** Jose Justiniano, Venky Gopalaswamy, 2004-11-15 Six Sigma for Medical Device Design is the first book to apply Six Sigma principles to the design of medical devices Authored by experienced professionals it uses real world examples and sample plans to provide a practical how to guide for implementation This volume also links the Six Sigma philosophy with the FDA's Design Control and ISO regulations useful for companies that must be compliant as well as for those in the process of implementing a quality system for design control This book is an excellent tool for technical and scientific personnel to understand the realities of business and markets to comply with stringent quality and safety standards and to optimize the product realization process [Computerworld](#), 1999-07-05 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld's award winning Web site Computerworld.com twice monthly publication focused conference series and custom research form the hub of the world's largest global IT media network [Computerworld](#), 2000-10-16 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld's award winning Web site Computerworld.com twice monthly publication focused conference series and custom research form the hub of the world's largest global IT media network [CIO](#), 2003-12-01

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Practical Support for Lean Six Sigma Software Process Definition Susan K. Land,Douglas B. Smith,John W. Walz,2012-04-25 Practical Support for Lean Six Sigma Software Process Definition Using IEEE Software Engineering Standards addresses the task of meeting the specific documentation requirements in support of Lean Six Sigma This book provides a set of templates supporting the documentation required for basic software project control and management and covers the integration of these templates for their entire product development life cycle Find detailed documentation guidance in the form of organizational policy descriptions integrated set of deployable document templates artifacts required in support of assessment organizational delineation of process documentation

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