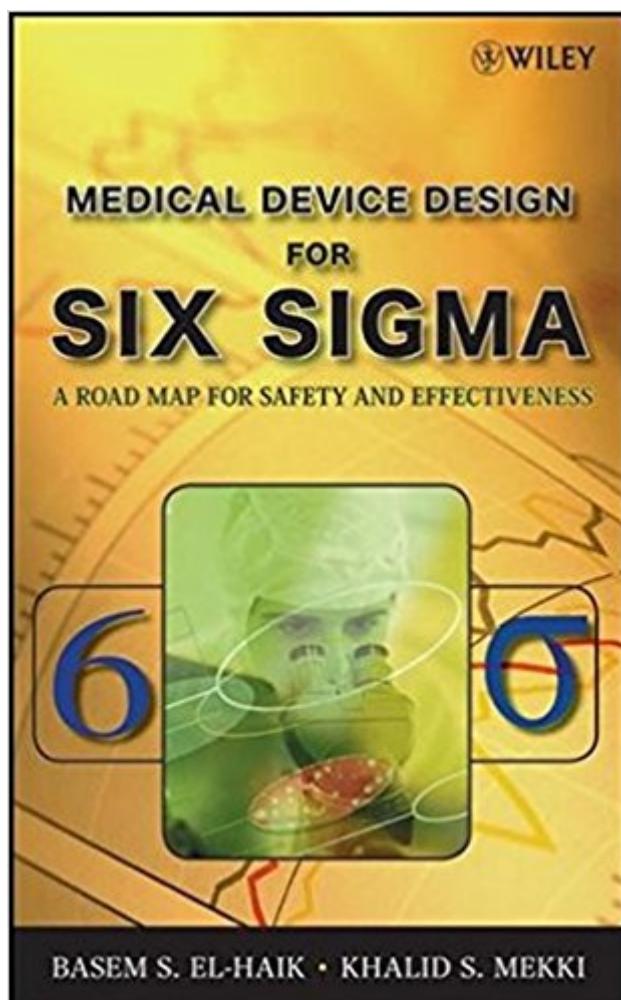


The book was found

Medical Device Design For Six Sigma: A Road Map For Safety And Effectiveness



Synopsis

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 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.

Book Information

Hardcover: 528 pages

Publisher: Wiley-Interscience; 2 edition (April 25, 2008)

Language: English

ISBN-10: 0470168617

ISBN-13: 978-0470168615

Product Dimensions: 6.4 x 1.2 x 9.5 inches

Shipping Weight: 2 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars 1 customer review

Best Sellers Rank: #1,512,922 in Books (See Top 100 in Books) #44 in Books > Textbooks > Medicine & Health Sciences > Reference > Instruments & Supplies #69 in Books > Medical

Customer Reviews

"The book is well-written and the authors use well versed descriptions, easy to read figures and tables, and industry-related examples and case studies to explain what can be very complex concepts and processes. This book would be a valuable resource for anyone in the field of medical device design." (Doody's Book Reviews, October 2008)

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 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.

I had read this book with great interest. The reader will find inside many examples of case studies regarding how to apply Six sigma tools in the medical device industry. The concepts are probably explained very quickly, so the topics are clearly understandable to people already familiar with Six

Sigma (at least at green belt level). Very usefully for BB / MBB to set up a deployment project of DFSS in the company. Good job done by the authors!

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

Medical Device Design for Six Sigma: A Road Map for Safety and Effectiveness Lean Six Sigma for Service : How to Use Lean Speed and Six Sigma Quality to Improve Services and Transactions
Lean Six Sigma: A Beginner's Guide to Understanding and Practicing Lean Six Sigma
Lean Six Sigma For Beginners, A Quick-Start Beginner's Guide To Lean Six Sigma ! - Six Sigma Green Belt Study Guide: Test Prep Book & Practice Test Questions for the ASQ Six Sigma Green Belt Exam
How to Add a Device to Account: How to add a device to my account - 3 easy steps in few minutes
Medical Terminology: Medical Terminology Easy Guide for Beginners (Medical Terminology, Anatomy and Physiology, Nursing School, Medical Books, Medical School, Physiology, Physiology)
Medical Terminology: Medical Terminology Made Easy: Breakdown the Language of Medicine and Quickly Build Your Medical Vocabulary (Medical Terminology, Nursing School, Medical Books)
Fullpower Safety Comics: People Safety Skills for Teens and Adults (Kidpower Safety Comics)
Kidpower Youth Safety Comics: People Safety Skills For Kids Ages 9-14 (Kidpower Safety Comics)
Medical Device Register 1996: The Official Directory of Medical Suppliers (2 Vol Set)
The Six Sigma Handbook: The Complete Guide for Greenbelts, Blackbelts, and Managers at All Levels, Revised and Expanded Edition
Improving Healthcare Quality and Cost with Six Sigma
The Lean Six Sigma Pocket Toolbook: A Quick Reference Guide to 100 Tools for Improving Quality and Speed (Career (Exclude VGM))
The Six Sigma Method: Boost quality and consistency in your business (Management & Marketing Book 14)
Lean Six Sigma and Minitab (4th Edition): The Complete Toolbox Guide for Business Improvement
The Lean Six Sigma Pocket Toolbook: A Quick Reference Guide to Nearly 100 Tools for Improving Quality and Speed
Jay Jackson's Six Sigma Approach To Improving Front-End Intake: For Mass Tort and Personal Injury Law Firms
Design, Execution, and Management of Medical Device Clinical Trials
Six Sigma For Dummies

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)