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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

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helps companies shorten lead times, cut development and manufacturing costs, lower total life-cycle cost, and improve the quality of the medical devices.

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concept and design methods
such as Pugh
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parameter
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Taguchi Robust Designmethod,
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Design Provides a detailed,
step-by-step implementation
process for each DFSS tool
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structural, organizational,
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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

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SixSigma trainees and
trainers, middle management,
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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

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and trainers, middle management, engineering team leaders, quality engineers and quality consultants, and graduate students in biomedical engineering. Although most agree that Lean Six Sigma is here to

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stay, they also agree that learning how to sustain the results seems problematic at best and unattainable at worst. Reverting to the old way of doing things is inevitable if sustainability measures are not a part of

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the methodology. Currently there are no standard resource on how to be sustainable or on using statistical techniques and practices. Until now. Sustainability: Utilizing Lean Six Sigma Techniques

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not only examines how to use particular lean six sigma tools, but how to sustain results that make companies profitable with continuous improvement. The book demonstrates how to use the Six Sigma methodology to

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make process-focused decisions that will achieve the goals of sustainability and allow organizations to gain true benefits from process improvements. It covers sustainability and metrics, Lean manufacturing,

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Six Sigma tools,
sustainability project
management, sustainability
modeling, sustainable
manufacturing and
operations, decision making,
and sustainability
logistics. These tools help

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sustain results while keeping organizations competitive regardless of economic conditions. While continuous improvement techniques look good on paper, the implementation of the techniques can become

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difficult and challenging to maintain. Without utilizing Lean Six Sigma tools and leading the change, companies will become less and less marketable and profitable. This book supplies a blueprint on

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achieving sustainable results from high-quality improvements and making organizations competitive and first in class in their marketplace.

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to the next level The Six
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Series goes beyond simply
explaining Six Sigma basics
to interested
managers--these are hard-
core working tools of
statistical methods,

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quantitative and intense,
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practitioners unwilling to
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than peak performance in
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from the world-renowned
Motorola University, this
handbook provides the tools
Six Sigma Black Belts and
Master Black Belts need to
deal with the most
intractable business
problems. The authors show

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how to integrate research and development, manufacturing, human resources, finance, marketing, quality, and customer service with corporate vision, mission, and key strategies. * Tools

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for estimating quality
project cost on a project by
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the System, Methods, and
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*The Practical, Example-Rich
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for Six Sigma (DFSS) offers
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opportunities to develop
more successful systems,*

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*clear, start-to-finish
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successfully developing
complex high-technology
products and systems that
require both software and
hardware development.
Drawing on their unsurpassed*

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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

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*examples for applying their
techniques to software
alone, hardware alone, and
systems composed of both.
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proven job aids and specific
guidance about what teams
and team members need to do*

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*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*

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*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*

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*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*

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*quantifiable, verifiable
requirements for every sub-
process, subsystem, and
component Use predictive
engineering and advanced
optimization to build
products that robustly
handle variations in*

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*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*

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*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*

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*the real Voice of the
Customer, achieve better
results faster, and
eliminate fingerpointing.
About the Web Site The
accompanying Web site,
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provides an interactive DFSS*

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tools.

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*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*

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*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*

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*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*

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*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*

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*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-*

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*examinations, explanatory
sidebars, and chapter-ending
checklists*

*Design for Six Sigma (DFSS)
is a systematic approach for
manufacturing companies to
address product and process
issues at the early*

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*development stage. Through
inventive thought processes,
early error elimination, and
robust design, DFSS has
dramatically impacted
product quality and
performance and increased
profit. In this*

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*comprehensive volume, the
four-phase IDOV--Identify-
Design-Optimize-Verify--DFSS
methodology is discussed in
detail. The various
practices from inventive
design methodologies,
deterministic and stochastic*

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numerical methods, and the use of CAE simulation techniques, are mapped to the DFSS procedure. Many case studies are used to illustrate how tools are used in DFSS processes.

Written by DFSS

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*practitioners and
technologists, this book is
intended for any engineer to
use as a reference in
executing DFSS projects.*

** Covers the nuts, bolts,
and statistics of
implementing Six Sigma in*

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electronics

*manufacturing--includes case
studies and detailed
calculations*

*Six Sigma for Medical Device
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Robust Design for Quality

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Axiomatic Quality
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Product and Service
Development
Design For Six Sigma A
Complete Guide - 2020
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The following is a chapter from Kai Yang's Design for Six Sigma for Service. This comprehensive handbook aggressively tackles the difficulties involved in applying rigorous Six Sigma statistical

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methods to service environments. It delivers solid, effective solutions that can help your organization achieve measurable gains in customer satisfaction, cost reduction, value improvement, change

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management, and process performance. Featuring detailed design guidance and valuable tips, this book provides the specifics you need to create product value through improved service

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Lean production, has long been regarded as critical to business success in many industries. Over the last ten years, instruction in six sigma has been increasingly linked

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with learning about the
elements of lean production.
Introduction to Engineering
Statistics and Lean Sigma
builds on the success of its
first edition (Introduction to
Engineering Statistics and Six

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Sigma) to reflect the growing importance of the "lean sigma" hybrid. As well as providing detailed definitions and case studies of all six sigma methods, Introduction to Engineering Statistics and

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Lean Sigma forms one of few sources on the relationship between operations research techniques and lean sigma. Readers will be given the information necessary to determine which sigma

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methods to apply in which situation, and to predict why and when a particular method may not be effective. Methods covered include: • control charts and advanced control charts, • failure mode and

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effects analysis, • Taguchi methods, • gauge R&R, and • genetic algorithms. The second edition also greatly expands the discussion of Design For Six Sigma (DFSS), which is critical for many

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organizations that seek to deliver desirable products that work first time. It incorporates recently emerging formulations of DFSS from industry leaders and offers more introductory material on

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the design of experiments, and on two level and full factorial experiments, to help improve student intuition-building and retention. The emphasis on lean production, combined with recent methods relating

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to Design for Six Sigma
(DFSS), makes Introduction to
Engineering Statistics and
Lean Sigma a practical, up-to-
date resource for advanced
students, educators, and
practitioners.

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Design for Six SigmaA

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This proposal constitutes an
algorithm of design applying
the design for six sigma
thinking, tools, and philosophy

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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

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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

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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

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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

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stage.

The Six Sigma Black Belt

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Concepts to Achieve World-

Class Service

Mindset for Successful

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Service Design for Six Sigma
A Roadmap for Product
Development
Applying Design for Six Sigma
to Software and Hardware
Systems

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Here is a chapter from
Design for Six Sigma
Statistics, written by a Six
Sigma practitioner with more
than two decades of DFSS
experience who provides a
detailed, goal-focused

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roadmap. It shows you how to execute advanced mathematical procedures specifically aimed at implementing, fine-tuning, or maximizing DFSS projects to yield optimal results. For

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virtually every instance and situation, you are shown how to select and use appropriate mathematical methods to meet the challenges of today's engineering design for quality.

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In real life, data is messy and doesn't always fit into normal statistical distributions. This is especially true in service industries where the variables are, well, variable

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and directly related to and
measured by the constantly
changing needs of
customers. As the breadth
and depth of tools available
has increased across the
integrated Lean Six Sigma

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landscape, their integrated application has become more complex. Filled with case studies using real-world data, Lean Six Sigma in Service: Applications and Case Studies demonstrates

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how to integrate a suite of tools to make sense of an unstructured problem and focus on what is critical to customers. Using a clean, clear writing style that is not overly technical, the author

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describes the Six Sigma
DMAIC (Define-Measure-
Analyze-Improve-Control)
and Design for Six Sigma
IDDOV (Identify-Define-
Design-Optimize-Validate)
problem solving approaches

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and how they can be applied to service and transaction-related processes. The case studies illustrate the application of Lean Six Sigma tools to a wide variety of processes and problems

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including, but not limited to
financial process
improvement, designing a
recruiting process, managing
a college's assets, and
improving educational
processes. Examples of tools

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include Pareto analysis,
cause and effect analysis,
failure mode and effects
analysis, statistical process
control, SIPOC, process flow
charts, project management
tools, cost of quality

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analysis, and Lean tools,
such as 5S, 8 wastes, and
the 5 whys. Ultimately, the
Lean Six Sigma team must
show improvement against
the metrics that assess
customer satisfaction. This

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book includes strategies for
integrating Lean Six Sigma
tools into measurable
improvement processes and
eliminating the root causes
of problems. With its
inclusion of case studies and

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an alternative approach to
the material, the book
provides an instant
understanding of how others
have successfully applied
Lean Six Sigma tools. This
understanding then

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translates into processes
that can be applied to any
service organization.

This is the eBook version of
the printed book.

Development of a new
product requires the product

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development team to address many complex customer requirements during the commercialization process. Consider a situation in which a new product being developed must meet

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specified upper and lower
specification limits based on
Voice of the Customer
interviews. The design team
must model and understand
the sources of potential
variation in the new product

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that need to be monitored and controlled if the product is to meet the identified customer needs. The process of analyzing component variation and designing a final product that meets

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customer tolerance requirements is known as statistical tolerancing. In this Short Cut, various Design for Six Sigma techniques for determining the impact of multiple sources of variation

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on a final product are examined in detail. A procedure is described for using representative models for individual product components to estimate the expected overall level of

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variation in the performance
of a final product. Three
methods of tolerance
analysis are presented and
the merits of each are
discussed: Worst Case
Analysis, Root Sum of

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Squares Analysis, and Six Sigma Tolerance Analysis. A detailed case study example, involving multiple sources of variation, is employed to illustrate the application of these methods. Minitab® is

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used to identify the best-fitting distributions from data sets for individual components. Monte Carlo Simulation with Crystal Ball® is then employed to determine the most

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important individual sources of variation and the overall variation of the final product. Finally, Crystal Ball's OptQuest® optimization feature is utilized to determine the required

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design value for each key
parameter to meet final
customer requirements.

Contents What This Short
Cut Covers Introduction
Worst Case Analysis Root
Sum of Squares Analysis Six

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Sigma Tolerance Analysis

What's in the Book

Commercializing Great

Products with Design for Six

Sigma About the Authors

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The Toolset is a

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comprehensive collection of the relevant Design for Six Sigma+Lean tools, which are necessary for successfully implementing innovations. All tools are presented in a clear structure, providing a

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good overview of the methodology. The chronology of the listed tools corresponds to the procedure in a Design for Six Sigma+Lean development project with the stages

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Improvement Series
Define, Measure, Analyze,
Design, and Verify. Due to
this unique structure by
which tools can be found and
applied quickly we created a
book that facilitates project
work in practical use

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enormously. Migrating from a tool based approach to a question based approach is a decisive success factor in our opinion enabling firstly, increased efficiency of project work for the Project

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Leader, his team and the associated Stakeholders, and secondly, significantly increasing the probability of success for the respective innovation projects.

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Lean Six Sigma in Service
Design for Six Sigma +
LeanToolset
Statistical Tolerancing in

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Design for Six Sigma (Digital
Short Cut)

Sustainability

Software Design for Six
Sigma

This book is written primarily for
engineers and researchers who

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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

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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

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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

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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.

Most Six Sigma books are

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targeted at manufacturers, and don't reflect the unique implementation challenges service companies face. This book fills the gap. Using its practical, start-to-finish guidance, service company teams can

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utilize Six Sigma to drive powerful bottom-line benefits. The authors systematically introduce the management foundation required to implement Six Sigma successfully. Readers will discover how to lead teams to

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achieve results in shorter time frames, and present projects to executives concisely and effectively. This book thoroughly covers every stage of the DMADV Design for Six Sigma(R) Management improvement model:

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Customer," analyze it, and use it
to drive development Choose the
right tools: Ideation, Pugh
Concept Selection, QFD, TRIZ,
and many more Develop better
products and processes: Process
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product performance and
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and translate them into high-
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cover the whole body of
knowledge of Six Sigma and
Design for Six Sigma with
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by the American Society for
Quality. Both simulation and
contemporary Six Sigma methods
are explained in detail with
practical examples that help
understanding of the key features
of the design methods. The

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systems approach to designing products and services as well as problem solving is integrated into the methods discussed.

Simulation-based Lean Six-Sigma
and Design for Six-Sigma
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Design for Six Sigma Statistics,
Chapter 1 - Engineering in a Six
Sigma Company

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Most from Your Product
Development Process

Commercializing Great Products
with Design for Six Sigma

*Design for Lean Six Sigma is the only
book that employs a "road-map"
approach to DFSS, which allows*

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*corporate management to understand
where they are in the process and to
integrate DFSS methodology more
fully into their overall business
strategy. This is a similar approach to
that used by Forrest Breyfogle in his
successful book: "Implementing Six*

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Sigma, 2E". This approach will allow corporate management to understand where they are in the process and to integrate DFSS methodology more fully into the overall business strategy. Another important aspect of this book is its coverage of DFSS

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implementation in a broad range of industries including service and manufacturing, plus the use of actual cases throughout.

For designers of medical devices, the FDA and ISO requirements are extremely stringent. Designers and

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researchers feel pressure from management to quickly develop new devices, while they are simultaneously hampered by strict guidelines. The Six Sigma philosophy has solved this dichotomous paradigm for organizations in other fields, and

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Design for Six Sigma, Second Edition,
which has extensive new chapters and
learning modules on innovation, lean
product development, computer
simulation, and critical parameter*

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*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*

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book includes detailed directions, careful comparisons, and work-out calculations that make every step of the Design for Six Sigma process easier.

The book focuses on the introduction of the basic concepts, processes, and

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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

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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

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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.*

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Six Sigma Fundamentals

Projects and Personal Experiences

Six Sigma

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Product Development Process and

Design for Six Sigma

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Implementing Design for Six Sigma
**Service industries have
traditionally lagged
manufacturing in
adoption of quality
management strategies
and Six Sigma is no**

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*exception. While there
are a growing number of
books on applying the
hot topics of Six Sigma
and Lean Manufacturing
concepts in a
manufacturing*

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*environment, there has
not been a mainstream
book that applies these
techniques in a service
environment, until now.
Transactional Six Sigma
and Lean Servicing™:*

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*Leveraging Manufacturing
Concepts to Achieve
World Class Service is a
ground breaking "how-to"
book that serves as a
practical guide for
implementing Six Sigma*

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*and Lean Manufacturing
methods in a
transactional service
oriented environment. It
uses real case studies
and examples to show how
Six Sigma and Lean*

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*Servicing™ techniques
have been implemented
and proven effective in
achieving substantial
documented results. Lean
Servicing™ is the
author's own term used*

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*to describe the
application of Lean
Manufacturing concepts
to transactional and
service processes.
Liberal use of examples,
graphics, and tables*

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*will assist you in
grasping the difficult
concepts. Transactional
Six Sigma and Lean
Servicing™ covers both
theory and practical
application of Lean*

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DMAIC and Six Sigma DFSS
concepts and methods so
you can implement them
effectively in your
service organization and
achieve reduced costs***

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*and a new level of
service excellence.*

*The first book to
integrate axiomatic
design and robust design
for a comprehensive
quality approach As the*

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*adoption of quality
methods grows across
various industries, its
implementation is
challenged by situations
where statistical tools
are inadequate, yet the*

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*earlier a proactive
quality system
is introduced into a
given process, the
greater the payback
these methods will yield.
Axiomatic Quality brings*

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*together two well-
established*

theories, axiomatic

design and robust

design, to eliminate or

reduce both conceptual

and operational

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*weaknesses. Providing a
complete framework for
immediate
implementation, this
book guides design teams
in producing systems
that operate at high-*

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*quality levels foreach
of their design
requirements. And it
shows the way
towardsachieving the Six-
Sigma target--six times
the standard*

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*deviation contained
between the target and
each side of the
specification limits--for
each requirement. This
book develops an
aggressive axiomatic*

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*quality approach that: **
Provides the tools to
reduce conceptual
weaknesses of
systems using a framework
called the conceptual
*design for capability **

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*Reduces operational
weaknesses of systems in
terms of quality losses
and control costs * Uses
mathematical
relationships to bridge
the gap between science-*

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*based engineering and
quality methods Acclaro
DFSS Light, a Java-based
software package that
implements axiomatic
design processes, is
available for download*

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from a Wileyftp site.

*Acclaro DFSS Light is a
software product of
AxiomaticDesign
Solutions, Inc. Laying
out a comprehensive
approach while working*

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*through each aspect of
its implementation,
Axiomatic Quality is an
essential resource for
managers, engineers, and
other professionals who
want to successfully*

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*deploy the most advanced
methodology to*

*tacklesystem weaknesses
and improve quality.*

*This book focuses on the
basics of the six sigma
methodology. It targets*

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*on both manufacturing as
well as non-
manufacturing
organizations and
demystifies the Six
Sigma methodology. The
book addresses the*

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*concepts of the Six
Sigma philosophy and
explains the
methodologies involved
in it.*

*Design for Six Sigma
(DFSS), or the Six Sigma*

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*DMADV process (Define,
Measure, Analyze,
Design, Verify), is an
improvement system used
to develop new processes
or products at Six Sigma
quality levels. It also*

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*can be employed if a
current process requires
more than just
incremental improvement.
It is executed by Six
Sigma Green Belts and
Six Sigma Black Belts,*

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*and overseen by Six
Sigma Master Black
Belts.*

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Engineers*

*Lean Six Sigma and
Statistical Tools for*

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Development***

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for Six Sigma

*Transactional Six Sigma
and Lean Servicing*

**The primary objective of
this new book is to
provide a comprehensive
reference for those who**

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**work in a service
industry setting. Unlike
Design for Six Sigma a
Roadmap for Product
Development, this new
book will address the 5
leading issues in the**

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**service industry, which
are customer
satisfaction, cost
reduction, value
improvement, change
management and process
performance**

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measurements.

**A roadmap to consistent,
high-quality service for
any organization A
service is typically
something created to
serve a paying customer,**

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**whether internal or
external. Some services
consist of several
processes linked
together while others
consist of a
single process. This book**

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**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**

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**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**

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**things right the first
time. Not only does
thewhole quality
business produce a high-
quality product and
offerhigh-quality
services, but it also**

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**operates at lower cost
and higher efficiency,
throughout the entire
life cycle, than
its competitors because
all the links in the
supply chain**

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**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**

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**needed to take advantage
of service DFSS within
their own organizations,
including: * Clear and
in-depth coverage of the
philosophical,
organizational, and**

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**technical aspects of
service DFSS * Step-by-
step roadmap of the
entire service DFSS
deployment and execution
process * Full
discussions of all the**

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**key methods involved in
service DFSS, including
axiomatic design, design
for X, the theory of
inventive problem solving
(TRIZ), transfer
function, design**

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**scorecards, and Taguchi's
method * Practical,
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that demonstrate how the
theory is put into
practice * Assistance in
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**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**

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**concepts they need to
move forward in the text.
Acclaro DFSS Light(r), a
Java-based
software package that
implements axiomatic
design processes**

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**discussed in Chapter
Eight, is available for
download from an
accompanying Wileyftp
site. Acclaro DFSS
Light(r) is a software
product of**

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**Axiomatic Design
Solutions, Inc. This
book is ideal as a
reference to service
DFSS for
corporate executives,
quality control**

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**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,**

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to implement Design for
Six Sigma (DFSS) in new**

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**product and service
development. The Second
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indispensable design
tool retains the core of
the previous edition,
while adding new**

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**information on
innovation, lean product
development, incomplete
DOE, mixture
experiments, and
alternative DFSS
roadmaps—plus new thread-**

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fundamentals...to DFSS
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algorithm...to design
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solid understanding of
the entire process for
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creation of successful
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DFSS program Expert
walkthroughs that help
readers choose the right
design tools at every
stage of the DFSS**

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innovation, lean product
development, and
computer simulation; new
material on critical
parameter management;**

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**offers professionals in
a wide range of
industries the
information required to
maximize DFSS potential
in creating winning
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fundamentals, and the
nature of Design for Six
Sigma, and then presents
clear, step-by-step
coverage of: Design for
Six Sigma Deployment**

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Transfer Function and
Scorecards Quality
Function Deployment
(QFD) Axiomatic Design
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Experimental Design
Incomplete DOE Taguchi's**

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Experiment Taguchi's
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sigma data be captured?
What are the concrete
design for six sigma
results? Are you
measuring, monitoring
and predicting design**

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**for six sigma activities
to optimize operations
and profitability, and
enhancing outcomes?
Defining, designing,
creating, and
implementing a process**

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**to solve a challenge or
meet an objective is the
most valuable role... In
EVERY group, company,
organization and
department. Unless you
are talking a one-time,**

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**single-use project,
there should be a**

**process. Whether that
process is managed and
implemented by humans,
AI, or a combination of
the two, it needs to be**

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**designed by someone with
a complex enough
perspective to ask the
right questions. Someone
capable of asking the
right questions and step
back and say, 'What are**

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**we really trying to
accomplish here? And is
there a different way to
look at it?' This Self-
Assessment empowers
people to do just that -
whether their title is**

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**entrepreneur, manager,
consultant,
(Vice-)President, Cx0
etc... - they are the
people who rule the
future. They are the
person who asks the**

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**right questions to make
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investments work better.
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Sigma All-Inclusive Self-
Assessment enables You
to be that person. All**

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**the tools you need to an
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updated case-based
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**process design, this
Self-Assessment will
help you identify areas
in which Design For Six
Sigma improvements can
be made. In using the
questions you will be**

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**better able to: -
diagnose Design For Six
Sigma projects,
initiatives,
organizations,
businesses and processes
using accepted**

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**diagnostic standards and
practices - implement
evidence-based best
practice strategies
aligned with overall
goals - integrate recent
advances in Design For**

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**Six Sigma and process
design strategies into
practice according to
best practice guidelines
Using a Self-Assessment
tool known as the Design
For Six Sigma Scorecard,**

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ensuring you always have
the most accurate
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and Effectiveness
Strategičeskij očerk**

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Design for Six Sigma (DFSS) is an innovative continuous improvement methodology for designing new products, processes, and services by integrating Lean and Six Sigma

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principles. This book will explain how the DFSS methodology is used to design robust products, processes, or services right the first time by using the voice of the customer to meet Six Sigma performance. Robust designs are

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insensitive to variation and provide consistent performance in the hands of the customer. DFSS is used to meet customer needs by understanding their requirements, considering current process capability, identifying and

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(DFSS) enables organizations to

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develop innovative designs. In order to redesign an existing process or design a new process, the success is dependent on a rigorous process and methodology. DFSS ensures that there are minimal defects in the

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introduction of new products, processes, or services. The authors have compiled all of the tools necessary for implementation of a practical approach through innovation. This book addresses many new

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topical areas for the development of 6 Sigma performance. The text is structured to demonstrate how 6 Sigma methods can be used as a very powerful tool within System Engineering and integration evaluations to help enable the

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process of Critical Parameter Management. The case studies and examples used throughout the book come from recent successful applications of the material developed in the text.

In the new millennium the

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increasing expectation of customers and products complexity has forced companies to find new solutions and better alternatives to improve the quality of their products. Lean and Six Sigma methodology provides the

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best solutions to many problems and can be used as an accelerator in industry, business and even health care sectors. Due to its flexible nature, the Lean and Six Sigma methodology was rapidly adopted by many top and even

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small companies. This book provides the necessary guidance for selecting, performing and evaluating various procedures of Lean and Six Sigma. In the book you will find personal experiences in the field of Lean and Six Sigma

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projects in business, industry and health sectors.

Real-world examples and hands-on experience are invaluable resources when learning how to use new methods and tools, whether in training or in a

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classroom. Yet there are very few books on Design for Six Sigma (DFSS) that provide the practical knowledge required to be up and running quickly. Until now. Design for Six Sigma in Product and Service Development: Applications

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and Case Studies provides step-by-step analysis and practical guidance on how to apply DFSS in product and service development. The book discusses the DFSS roadmap and how it is linked to methodologies, including

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organizational leadership, product development, system integration, critical parameter management, voice of the customer, quality function deployment, and concept generation. The chapter authors provide real-world case studies

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that demonstrate how the application of DFSS has significantly improved meeting customer requirements. They follow the Identify-Define-Design-Optimize-Validate (IDDOV) structure for new product or

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service development. Examples of
tools covered include Quality
Function Deployment, Voice of the
Customer, Pugh Concept
Selection, Ideal Function, Failure
Modes and Effects Analysis,
Reliability, Measurement Systems

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Analysis, Regression Analysis, and Capability Studies, among others. Clearly outlining the tools and how to integrate them for robust product and service design, the case studies can be used by industry professionals and

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academics to learn how to apply DFSS. The book gives you hands-on experience in a safe environment, where experienced Black Belts and Master Black Belts act as mentors and prepare you to touch actual data and make

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decisions when embarking on real-world projects. Even after you've mastered the techniques, the breadth and depth of coverage contained in this book will make it a vital part of your toolkit.

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