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Six-sigma quality describes a product development and manufacturing process of highly robust quality. Achieving six-sigma quality ensures both dependable product quality and production efficiency. The book title Engineering Robust Products with Six Sigma denotes the use of a disciplined Six Sigma process in conjunction with a robust product design. The appropriate application of robust engineering principles with Six Sigma process will enable product development programs to quickly deliver ...

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These and similar observations by other leading companies are compelling them to adopt improved product development processes under the banner Design for Six Sigma. The Design for Six Sigma approach is focused on 1) increasing engineering productivity so that new products can be developed rapidly and at low cost, and 2) value based management. Robust Design method is central to improving engineering productivity.

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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...

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In robust design, engineering parameters related to CTQs are categorized as either control factors or noise factors (see Figure 1-7). The Engineered System, or P-Diagram (see Chapter 6), for a product or process is a diagram that shows the relationship among system (or subsystem) parts, the CTQ, and the control and noise factors.

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.

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.

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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.

Robust Design is the procedure used by design engineers to reduce the effects of order to produce the highest quality products possible. This book includes real life case studies focusing on mechanical, chemical and imaging design that illustrate potential problems and their solutions and offers WinRobust Lite software and practice problems.

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

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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.

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

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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.

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

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developed around real problems and are based on the customer ' s needs. Industrial engineering is a field with a large and extensive presence in our nation's manufacturing and service industries. From this new book, researchers, practitioners, and students will get an easy access to a wide range of effective industrial engineering tools and techniques in a concise format that will provide in-depth coverage emphasizing new thinking paradigms, tools, techniques, and models for industrial engineering problem solving.

Six Sigma is a management program that provides tools that help manufacturers obtain efficient, stream-lined production to coincide with ultimate high quality products. Essentials of Lean Six Sigma will show how the well-regarded analytical tools of Six Sigma quality control can be successfully brought into the well-established models of “ lean manufacturing, bringing efficient, stream-lined production and high quality product readily together. This book offers a thorough, yet concise introduction to the essential mathematics of Six Sigma, with solid case examples from a variety of industrial settings, culminating in an extended case study. Various professionals will find this book immensely useful, whether it be the industrial engineer, the industrial manager, or anyone associated with engineering in a technical or managing role. It will bring about a clear understanding of not only how to implement Six Sigma statistical tools, but also how to do so within the bounds of Lean manufacturing scheme. It will show how Lean Six Sigma can help reinforce the notion of “ less is more, while at the same time preserving minimal error rates in final manufactured products. Reviews the essential statistical tools upon which Six Sigma rests, including normal distribution and mean deviation and the derivation of 1 sigma through six sigma Explains

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essential lean tools like Value-Stream Mapping and quality improvement tools like Kaizen techniques within the context of Lean Six Sigma practice Extended case study to clearly demonstrate how Six Sigma and Lean principles have been actually implemented, reducing production times and costs and creating improved product quality

Probabilistic Design for Optimization and Robustness: Presents the theory of modeling with variation using physical models and methods for practical applications on designs more insensitive to variation. Provides a comprehensive guide to optimization and robustness for probabilistic design. Features examples, case studies and exercises throughout. The methods presented can be applied to a wide range of disciplines such as mechanics, electrics, chemistry, aerospace, industry and engineering. This text is supported by an accompanying website featuring videos, interactive animations to aid the readers understanding.

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