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These and similar observations by other leading companies are compelling them to adopt improved product development

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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

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management.
Robust Design
method is central
to improving
engineering
productivity.

Introduction To Robust Design (Taguchi Method)

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In robust design,
engineering
parameters related
to CTQs are
categorized as
either control
factors or noise
factors (see Figure

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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.

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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

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primarily for
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that illustrate
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usage conditions,
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process has long
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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

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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

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perspective; this
book explains how
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can relate to and
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contributors
advocate designing
for robustness, i.e.
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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

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failure in the
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especially those
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Designing new

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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.

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problem solving.

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This book is written primarily for engineers who want to use statistical designs for quality engineering, and for statisticians who want to know the wide range of applications of experimental

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design in the
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Significantly,
Robust Design and
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addresses the
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techniques:

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robustness in
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its applications,
Pareto-type ANOVA
for analysis of
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and strategies of
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series of real case studies, these important techniques are made readily accessible to all readers. This is also the key text for senior undergraduate and postgraduate students studying engineering and experimental

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challenged by situations where statistical tools are inadequate, yet the earlier a proactive quality system is introduced into a given process, the greater the payback these methods will yield. Axiomatic Quality brings together two well-

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producing systems that operate at high-quality levels for each of their design requirements. And it shows the way towards achieving the Six-Sigma target--six times the standard deviation contained between the target and each side of

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- Provides the tools to reduce conceptual weaknesses of systems using a framework called the conceptual

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Acclaro DFSS Light, a Java-based software package that implements automatic design processes, is available for download from a Wileyftp site.

Acclaro DFSS Light is a software product of Axiomatic Design Solutions, Inc.

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Laying out a comprehensive approach while working through each aspect of its implementation, *Axiomatic Quality* is an essential resource for managers, engineers, and other professionals who want to successfully deploy

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the most advanced methodology to tackle system weaknesses and improve quality.

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bringing efficient,
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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

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