

Engineering Methods For Robust Product Design Using Taguchi Methods In Technology And Product Development Engineering Process Improvement Series

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What is robust product design
Robust design is an "engineering methodology for improving productivity during research and development so that high-quality products can be produced quickly and at low cost" (Phadke, 1989). The idea behind robust design is to improve the quality

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32.3 Taguchi's Robust Design Method
Robust Design method, also called the Taguchi Method, pioneered by Dr. Genichi Taguchi, greatly improves engineering productivity. By consciously considering the noise factors (environmental variation during the product's usage, manufacturing variation, and component deterioration) and the cost of failure in the field the Robust Design method helps ensure customer satisfaction.

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Engineering Methods for Robust Product Design: Using Taguchi Methods in Technology and Product Development (paperback) By William Y. Fowlkes, Clyde M ... The book contains complete information on the process of engineering robust products that are insensitive to sources of variability in manufacturing and customer use. You will find detailed ...

"ROBUST ENGINEERING"
The advantages of robust design are that the products are of good quality, cheaper, and more customer friendly than their non-robust counterparts. Although there are disadvantages, having a robust product design can give companies a large competitive edge. References Chaplan, Frank, Quality Engineering, v.11 n.2, Marcel Dekker, 1998-1999.

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robustness, is an after the fact evaluation, whereas robust engineering involves making the right decisions as the product is being designed. According to Taguchi, the only way to measure robustness is by a quantity known as the Signal-to-Noise ratio.

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Robust Design Method Evaluation Approach 1. Instantiate models of multiple "engineering systems" 2. For each system, simulate different robust design methods 3. For each system/method pair, perform a confirmation experiment 4. Analyze the data Frey, D. D., and X. Li, 2004, "Validating Robust Design Methods, accepted for

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Robust engineering seeks to attain that ideal state, referred to as the design's ideal function. Achieving efficiency in this transformation of energy - represents the strategic thinking supporting the ideal function concept.*4. Robust engineering is a method to measure quality.

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@inproceedings{Fowlkes1995EngineeringMF, title={Engineering Methods for Robust Product Design: Using Taguchi Methods in Technology and Product Development}, author={William Y. Fowlkes and Clyde M. Creveling}, year={1995} } William Y. Fowlkes, Clyde M. Creveling Foreword. Preface. 1. Introduction to ...

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Mr. Creveling is the author or coauthor of several books, including Six Sigma for Technical Processes, Six Sigma for Marketing Processes, Design for Six Sigma in Technology and Product Development, Tolerance Design, and Engineering Methods for Robust Product Design. He is the editorial advisor for Prentice Hall's Six Sigma for Innovation and ...

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Description. With practical techniques, real-life examples, and special software, this hands-on book/disk package teaches practicing engineers and students how to use Taguchi Methods and other robust design techniques that focus on engineering processes in optimizing technology and products for better performance under the imperfect conditions of the real world.

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