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Robust design processes include concept design, parameter design, and tolerance design. Taguchi's robust design method uses parameter design to place

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the design in a position where random "noise" does not cause failure and to determine the proper design parameters and their levels. The basic idea of parameter design in the Taguchi's robust design is to identify appropriate settings of control factors that make the system's performance robust in relation to changes in the noise factors.

Robust Design Method - an overview | ScienceDirect Topics

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.

Introduction To Robust Design (Taguchi Method)

The authors' experiences in applying Robust Design to mechanical and electrical systems, electrophotographic process optimization, and chemical process optimization at Kodak have demonstrated convincingly that Dr. Taguchi's design optimization techniques are extremely effective in reducing cycle time and rework.

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Engineering Methods for Robust Product Design: Using ...

recognize potential benefits resulting from the application of robust engineering design methods within a systems engineering context. By focusing on

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links between sub-system requirements and hardware/software product development, robust engineering design methods can be used to improve product quality and systems architecting. Topics such as

SDOE 655 Robust Engineering 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).

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