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This chapter describes product design

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processes in product manufacturing from a technological point of view pertaining to optimization. The importance of optimization techniques for present and future product manufacturing is clarified and fundamental strategies for product design optimization are discussed, based on concurrent engineering ...

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(PDF) Research on color optimization of tricolor product ...

This article describes a new interactive design approach integrating the constraints associated with production include manufacturing and assembling. The proposed method, in the form of an algorithm, allows optimisation of product

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design by minimizing production costs at each iteration, without compromising its functionality. The novelty of ...

Considering Design Prohibitions in Product Line Optimization

Design optimization applies the methods of mathematical optimization to design problem formulations and it is

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sometimes used interchangeably with the term engineering optimization. When the objective function f is a vector rather than a scalar, the problem becomes a multi-objective optimization one.

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Development of Adaptable Products Based on Modular Design ...

By integrating the radial basis function

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neural networks and a genetic algorithm, this study achieves multiobjective optimization of tricolor product color design for two optimization objectives ...

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considering the integrated satisfaction level. AU - Yoshimura, Masataka. AU - Sato, Masaki. AU - Miyashita, Tomoyuki. AU - Yamakawa, Hiroshi. PY - 2013. Y1 - 2013. N2 - We propose a product design optimization method that maximizes the integrated satisfaction level for evaluative factors. Product designs ...

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A comprehensive model for concurrent optimization of ...

OptiStruct is the award-winning integrated analysis and optimization product that has concept design and design fine-tuning capabilities for structures. HyperStudy is the solver-neutral design exploration, study and optimization product that can be used

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with third party solvers.

**Development of Adaptable Products
Based on Modular Design ...**

Research on design optimization has developed and demonstrated a variety of modeling techniques and solution methods, including techniques for multidisciplinary design optimization,

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and these approaches are beginning to migrate into product development practice. Software tools are appearing to assist with the optimization task. However, the ...

Structural design optimization of moving component in CNC ...

2005). The combination of products

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design and the supply chain decisions surely will reduce additional cost (Nepal et al., 2012). So far, many studies have been done on product family and supply chain scope. But it is mainly studied in this area as a problem of optimization considering the priority and the future for these two

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Research on Application of Electric Vehicle Collision ...

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

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variation, and component deterioration) and the cost of failure in the field the Robust Design method helps ensure customer satisfaction.

A Classification Framework for Product Design Optimization ...

Based on Reliability Optimization Design Method ... Considering the randomness

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of collision speed under actual working conditions, the application research of vehicle body structure based on RODM is carried out. 2. Reliability Optimization Design Theory 2.1. Optimal Latin hypercube experimental design The Latin hypercube experiment design separates the design area of each factor equally, and ...

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Introduction to Design Optimization

measures in optimization through design of parameters and design of configurations [6]. The objective of this research is to further improve the adaptable design method introduced by Xue et al. [5] by developing a modular design approach considering different

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life-cycle properties of the components in the adaptable product considering the whole ...

Product Design Optimization | SpringerLink

Product design optimization thus requires specialized software and domain experts to interpret and

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optimize the parameters. Most of the time, companies want to concentrate on manufacturing and marketing a product rather than design it. They therefore prefer to outsource the entire product design optimization process to companies that specialize ...

Product Design Optimization -

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A new approach is introduced in this research to identify the optimal designs of adaptable products that can be changed, such as reconfigured and upgraded, in the operation stage considering the whole product life-cycle spans based on the modular design and optimization methods.

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Product Design Optimization Method Considering

We propose a product design optimization method that maximizes the integrated satisfaction level for evaluative factors. Product designs include many evaluative factors that

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have complex interrelationships. To cope with such circumstances, we construct strategies and a practical method to obtain optimum design solutions. First, the evaluative ...

Design optimization - Wikipedia

Solution Methods Computer Program ...

An Example Optimization Problem

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Design of a thin wall tray with minimal material: The tray has a specific volume, V , and a given height, H . The design problem is to select the length, l , and width, w , of the tray. Given A “workable design”: Pick either l or w and solve for others $lwh=Vh=H lw V H = l w h$. An “Optimal Design” • The design is to ...

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Considering The **Algorithmic strategy for optimizing product design ...**

The fuzzy design optimization model are set up, using the theory of the design optimization and the fuzzy method, and considering the undefinition or the fuzziness of the design variables. 9. This thesis studies the methods of robust design optimization for multi response

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Altair Optimization Technology

Product line optimization provides a simple method to design for this challenge. Using a heterogeneous customer preference model allows the optimization to better explore the diversity in the market. The optimization

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should also consider aesthetic, engineering, manufacturing, and marketing constraints to ensure the feasibility of the final ...

Design optimization in a sentence (esp. good sentence like ...

Given that these factors are important to the structure optimization in machine

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tools design, this paper presents a structural design optimization method for comprehensively considering energy consumption, static and dynamic performance of machine tool. Firstly, the energy consumption model of the moving components is proposed, and the ...

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