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产品创新开发技术

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基于优先数系的产品族型谱规划模型

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Planning models for performance spectrum of product family based on preferred numbers

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摘要 为利用产品型谱来表达参数可调型产品系列以符合市场覆盖的心理预期,基于优先数系提出了产品系列型谱的两种规划模型,其中交互系列规划模型适用于新产品设计,在规划时产品的型谱段范围和细分级数需要交互输入;自动系列规划模型力求找到最接近现有产品资源的系列级数和型谱,适用于适应性设计。利用浙江省某摩托车液压盘式制动器的产品族型谱规划实例,验证了所提模型的实用性与有效性。

关键词 : 产品型谱, 产品平台, 优先数系, 交互系列规划, 自动系列规划

Abstract : To accord with the psychological expectation of market coverage by using performance spectrum to represent product,two planning models of performance spectrum were proposed based on preferred numbers.In interactive planning model,the product spectrum range and subdivision series should be inputted manually,which was applied to new products design;in automatic planning model,the closest ratio of grade and spectrum to existing product resources was searched,which was suitable for adaptive design.The effectiveness and practicability of proposed model was verified by using the motorcycle-hydraulic-disk brake platform planning experiment of Zhejiang province.

Key words : performance spectrum product platform preferred numbers interactive planning model automotive planning model

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