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面向产品建模的新一代实体造型技术研究

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STUDY OF THE SOLID MODELING TECHNIQUES ADAPTIVE TO PRODUCT MODELING

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摘要

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摘要 针对C I M和并行工程的产品建模需要,探讨了实体造型的两种新途径。一种是用精确的N U R B S曲面构造基本体素,实现曲面拼合运算;另一种是采用特征技术,将子形素贴合在父形素的连接面上,实现尺寸驱动的参数化设计,部分回避传统的拼合运算。

关键词: 产品研制 形状 显示 模型

Abstract: Solid modeling techniques with precise NURBS surfaces and form features are studied to meet the needs of product modeling in a CIM and concurrent engineering environment. Specifics of realizing the Boolean operation of sculptured solids as well as the designing-with-feature processes are outlined. The former carries out the set operation of two faee loops on the paramet-er planes of NURBS surfaces and results in a trimmed surface structure, while the latter explicitly locates a child feature on the joint face of parent feature, bypassing the traditional tedious set operations. Both approaches are useful and should be merged into a parametric, variational and feature-based solid modeler.

Keywords: product development shapes presentation models

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