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论文

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基于STEP的机械零件设计制造系统

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A STEP__BASED APPLICATION SYSTEM ON DESIGN AND MANUFACTURE FOR MECHANICAL PARTS

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摘要

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摘要 对集成问题,提出了概念的定义,探讨了STEP标准的应用方法,建立了基于STEP的集成系统框架。该系统框架具有开放式的体系结构,有良好的可集成性和可扩展性,支持与现有系统的集成、支持零件设计制造的全过程、并已部分地得到实现和验证。并介绍集成系统的数据模型。

关键词: 计算机辅助制造 系统集成 模型

Abstract: definition of integration is proposed, and the application on the STEP methodology is discussed. Then a STEP__based framework of integrated systems is presented. The framework is open to other systems and well expansive. It allows to integrate the information which needs to be shared with available application systems, and can support the whole design and manufacture process for mechanical parts. The system has been partly implemented and verified. In addition, the data model for the system is set up through the definitions of units of functionality.

Keywords: computer aided manufacturing systems integration models

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