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飞机装配型架标准件模型化技术

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MODELING FOR STANDARD COMPONENTS OF AIRCRAFT ASSEMBLY FIXTURES

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摘要

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摘要 针对飞机装配型架标准件的结构特点,在分析目前标准件管理技术及其局限性的基础上,提出了飞机装配型架标准件模型化技术。具体内容包括:(1)综述当前常用的标准件管理技术及其特点;(2)提出并建立型架标准件的信息模型、结构与形状模型和语义模型;(3)介绍型架标准件语义模型的解释机制等。与其它标准件管理技术相比,标准件模型化技术的特点是数据模型化、程序通用化以及标准件库扩充与维护方便等。本项技术还可推广应用于典型型架及其元件的管理,以进一步提高型架设计的效率

关键词: 飞机装配型架 标准件 数据模型

Abstract: According to the structural characteristics of standard components of aircraft assembly fixtures, this paper presents a new technique for modeling and managing these standard components. It includes: (1) The techniques for managing standard components are reviewed; (2) On the basis of analyzing the standard component information, standard information model, structural and shape model, and semantic management model are proposed; (3) The algorithm of interpreting the semantic management model is created. Compared with other methods, this modeling technique for standard components has several advantages, such as using data model and generalized program and being convenient to maintain. This technique can be also applied to manage typical structures of fixtures and their components.

Keywords: aircraft assembly fixture standard components data model

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