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散乱点曲面测量造型技术及其在飞机曲面工装模具设计与制造中的应用研究

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SURFACE MODELING TECHNIQUE TO 3D SCATTERED NC MEASURE POINTS AND ITS APPLICATION IN DESIGN AND MANUFACTURE OF TECHNOLOGICAL EQUIPMENT DIE AND MOULD OF AIRPLANE

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摘要

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摘要 分析研究了利用坐标测量机进行曲面模具数控测量的有关理论和方法。提出了一种基于测量规划、散乱点三角划分和采用 Bezier 三角形插值曲面重建曲面模具实物数学模型的方法。目前, 这种重建实物数学模型的方法已经在复杂曲面模具散乱点测量、几何造型和数控加工系统 3MS 中得到了应用, 较好地解决了航空、航天及汽车工业中一类构型十分复杂、形状和边界极不规则曲面产品的设计与制造

关键词: 测量规划 散乱点三角划分 Bezier 三角曲面 测量造型

Abstract: Some methods and theories are systematically studied about surface NC measure by coordinate measure machine(CMM). Based on measure scheme design, triangulation for 3D scattered measure points and triangular Bezier surface modeling, a new method on how to rebuild the surface model in relation to a practical surface sample product is presented. Now these methods have been applied in a special CAD/CAM system 3MS(Measure, Modeling and Machining System), which can efficiently deal with the NC measure, geometric modeling and machining of complex surface die and mould in aeronautical, astronautical and automobile industry.

Keywords: measure scheme triangulation for scattered points triangular Bezier patches geometric modeling for measure points

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