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适用于复杂外形产品设计与制造的B-SURF（3D-CAD）系统

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B-SURF（3-D CAD） SYSTEM FOR DESIGNING AND MANUFACTURING OF PRODUCTS WITH COMPLEX CONTOUR

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摘要

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摘要

B-SURF 3D-CAD系统,由3D几何设计、3D图形变换及处理、数控绘图与数控加工自动编程三个子系统组成。每个子系统又包括若干个相对独立而又互相联系的功能块。已应用该系统建立了两种型号无人机的全机数模,在IBM4341的图形终端及绘图仪上显示和绘制了全机及各部件的透视图、轴测图、切面图及三面图等。图1即为某型无人机的轴测图。

关键词:

Abstract:

We have developed the B-SURF 3-D CAD system based on the works of years about computer aided design and manufacturing of aircraft and automobile. The system can perform many functions, including 3-D geometric design and calculation of contour values, 3-D graphic transformation and processing, NC drafting and machining auto-programming, etc. The system takes the method of multiple knot nonuniform B-spline, which has a greater capacity for modeling, as its basis. The system, emphasizing the combination of pre-and post-processing, showed sufficiently the advantage of the method with certain degree of generality the system can be used for geometric designing and manufacturing of drone, light plane, automobile and other products with complex curved surfaces.

Keywords:

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