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数控线切割加工四轴联动轨迹合成研究

赵永顺¹, 刘正坝², 余承业²

1. 北京航空航天大学720研究所,北京,100083; 2. 南京航空航天大学502教研室,南京,210016

STUDIES OF THE PROFILE SYNTHESIS IN THE FOUR-AXES SIMULTANEOUS CONTROL WIRE-EDM

Zhao Yongshun¹, Liu Zhengxun², Yu Chengye²

1. Faculty 502, Nanjing University of Aeronautics and Astronautics, Nanjing, 210016; 2. Institute 720, Beijing University of Aeronautics and Astronautics, Beijing, 100083

摘要

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摘要 对四轴联动数控线切割加工进行轨迹合成研究。在线切割四轴联动的基础上对轨迹合成的对应标注进行了分类,提出了轨迹合成准则;给出在各种标注情况下的轨迹合成公式。采用此理论编制的后置处理程序处理上下异型的三维直纹曲面,得到四轴联动的ISO线切割加工程序

关键词: 电火花加工 数值控制 切割 轨迹 程序控制

Abstract: The paper studies the profile synthesis in the four axes simultaneous control wire EDM. First, on the basis of the introduction about four axes simultaneous control, two standards of profile synthesis are put forward with the classification of marking in profile. Second, it gives formulas of profile synthesis in each marking condition. Using these theoretical formulas, three dimensional ruled surface with different shapes in top and bottom surfaces can be treated and a four axes simultaneous control program in ISO codes also can be got.

Keywords: spark machining numerical control cutting trajectory or ies programming

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