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CAD/CAM of Sculptured Surfaces on a Multi-Axis NC Machine: The DG/K-Based Approach

By Stephen K. Radzevich

Morgan Claypool Publishers, United States, 2008. Paperback. Book Condition: New. 232 x 188 mm. Language: English . Brand New Book ***** Print on Demand *****.Many products are designed with aesthetic sculptured surfaces to enhance their appearance, an important factor in customer satisfaction, especially for automotive and consumer electronics products. In other cases, products have sculptured surfaces to meet functional requirements. Functional surfaces interact with the environment or with other surfaces. Because of this, functional surfaces can also be called dynamic surfaces. Functional surfaces do not possess the property to slide over itself, which causes significant complexity in machining of sculptured surfaces. The application of multiaxis numerically controlled (NC) machines is the only way for an efficient machining of sculptured surfaces. Reduction of machining time is a critical issue when machining sculptured surfaces on multiaxis NC machines. To reduce the machining cost of a sculptured surface, the machining time must be as short as possible.



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