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## 设计特征模型中的加工特征识别

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### MACHINING FEATURE RECOGNITION BASED ON SHAPE FEATURE BASED MODEL

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摘要

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**摘要** 当特征设计方法产生的模型中存在正特征或出现特征相关时, 则无法直接得到加工特征。提出设计特征模型中的加工特征识别算法, 即: 工艺毛坯与设计特征模型的差得到零件加工区域, 设计特征的规则化处理得到规则化设计特征模型, 利用它可以从零件加工区域中逐步分解出所有的加工特征。

**关键词:** 设计特征 加工特征 特征设计 特征识别

**Abstract:** A new machining feature recognition method is presented, which is capable of recognizing protruding and interacting features in a shape feature based model. The total machinable volume, including all the machining feature volumes, is obtained by subtracting the design model from the corresponding machinable raw stock. Regularized algorithm is developed to deal with all kinds of shape features so as to get a regularized design model, in which there exist only three kinds of shape features: independent protruding feature, independent depressive feature and depressive feature with subsidiary protruding feature. Using the regularized design model, all the machining features can be decomposed from the total machinable volume conveniently. Furthermore, in the proposed method, the shape feature terms can be converted into corresponding machining feature terms suitably.

**Keywords:** shape feature machining feature design-by-feature feature recognition

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