

Case-Based Reasoning Approach for Process Planning of Internal Thread Cold Extrusion

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Abstract : For the difficult issues of process selection, case-based reasoning technology is applied to computer aided process planning system for cold form tapping of internal threads on the basis of similarity in the process. A model is established based on the analysis of process planning. Case representation and similarity computing method are given. Confidence degree is used to evaluate the case. Rule-based reuse strategy is presented. The scheme is illustrated and verified by practical application. The case shows the design results with the proposed method are effective.

Keywords : case-based reasoning, internal thread, cold extrusion, process planning

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