THE CONVENTIONAL EXTRACTION OF FEATURES FROM INTRICATE PRISMATIC PART FOR COMPUTER AIDED PROCESS PLANNING SYSTEM (CAPPS)

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ABSTRACT

The basic object of this paper is conventional study, identification and development of machining feature from prismatic component. The extraction of features plays an essential mission in the Computer Aided Process Planning [CAPP] System. The extraction of feature attain firstly, by study of the geometrical specification from given CAD model drawing. Secondly, by characterizing the different features according to their machining shape and reflecting characteristics of the machining process from the viewpoint of the removal volume.

The efficient extraction of feature ultimately helps in grouping the machined areas into clusters, where each cluster can be matched to a machining feature. In this paper the conventional method of key techniques such as feature recognition and conversion, feature parameter and constraint extraction, volume approach, feature tree construction, information processing, sequence of the optimized process planning by considering 2.5 Dimensional stock and CAD model as input.

KEYWORDS: Prismatic Component, Computer Aided Process Planning, Computer Aided Design, Machining Feature Extraction, Machining Process Model and Sequence of Operation Tree