

FEATURE TECHNOLOGY FOR THE DETERMINATION OF MANUFACTURABILITY OF A PRODUCT DURING ITS DESIGN

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Abstract

To meet the challenges of global competition the manufacturing organizations are striving to satisfy the following conflicting major goals: high quality, low cost and short delivery time. In this regard the strategy which is currently getting much attention of manufacturing industries is the consideration and determination manufacturability of a product during the preliminary stages of its design. In order to determine the manufacturability of a product during its design, it is necessary to consider and apply the manufacturing knowledge and manufacturing information during the product design stage. For this a strategy needs to be identified which leads to compilation and presentation of manufacturing knowledge and also development of computer assisted procedures to evaluate the manufacturability of a product automatically form its design. In this direction, the current paper focuses on a research plan to exploit the capabilities of feature technology for applying it for the purpose of determining the manufacturability of a product during its design.

Keywords: Manufacturing Feature, Manufacturability analysis, Design for Manufacturing and Feature representation.

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