

Design-for-Lean Six Sigma within the Pro/Engineer Environment

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Abstract:

Successful organizations realize that probabilistic design techniques have enormous positive impact on time-to-quality and product cost reduction. This becomes obvious when the total product cost is considered to include the costs of poor quality (rework, product recalls, field service, warranty payments, guarantee costs, missed sales goals, lost customers, liability, etc.)

In this paper a user prospective of the state of the current modeling processes to automatically create optimum robust designs is presented. Examples of probabilistic design and optimization from the automotive, battery and fuel cell industries will be presented. The reusable workflow process presented empowers engineers to generate 6-sigma quality designs early in the design process.