

OPTIMIZING LIFE CYCLE ISSUES USING AXIOMATIC DESIGN

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ABSTRACT

The design of a product involves meeting a multitude of requirements from many stakeholders. Typically, in research focus has been on mapping and decomposing requirements starting with Customer Requirements and continuing to Functional Requirements, Design Parameters and so on. In this address, it will be shown how axiomatic design, applied at the level of systems architecture, can accommodate requirements from stakeholders that are concerned with lifecycle cost and life cycle management of the future product. When applied at this level, axiomatic design provides decision makers with the power to make the right decisions and set the right direction in early design phases to meet life cycle goals as well as customer requirements.