

PRODUCT DESIGN MODELS, METHODS AND TOOLS KNOWLEDGE SYNTHESIS

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Abstract: Nowadays, in the markets globalization context and rising concurrence, the reduction of the delivery terms for products, lowest production costs and high quality products are the main objectives for companies. An important aspect in order to attend these objectives is to choose an integrated, collaborative product design approach. A platform that uses the most advanced management solutions for the product lifecycle - Product Lifecycle Management (PLM) can materialize this approach. In this context, the presented research’s aim is to study the product design models in order to elaborate a methodology for sustaining a product development platform. The paper presents a knowledge synthesis in the field of product design models, methods and tools from the perspective of different categories in order to see which are the most suitable to use regarding the build of an integrated, collaborative product development platform accordingly with the companies objectives.

Keywords: design, models, methods, tools, knowledge

