A product-model supporting coupling's management during microproduct design

Microproducts show specificities compared to macroproducts and their design processes differ. Nowadays, existing design tools manage microproduct specificities too late during the design process, only after the first product representation is available. This article presents a product-model able to represent microproducts during the design flow, taking into account their specificities and exceeding the limits of product representation in actual design tools. The genericity of this model is demonstrated by the instantiation of a micro electro mechanical system (MEMS) radio frequency (RF) switch.

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