Resource and Cost Oriented Innovation Steering in Sustainable Product Design

Abstract:
Product development in industry is exposed to intensifying pressure in the context of environmental aspects both from legislative regulations as well as from the market. Governments are steadily increasing the standards and customers around the world are becoming more aware of ambient issues. Furthermore the prices for non-renewable resources are rising and even resource-shortages are to be expected. This demanding development can be converted into a valuable competitive advantage for companies embracing the challenge. Resources and emissions linked to a product’s lifecycle are subject to increasing considerations in the buying decision and have substantial influence on the success of innovations. In order to optimize both the usage of resources as well as emissions of a product (also: product service system) at competitive cost engineers need a systematic framework to support them.

Stichworte:
Sustainability; Lifecycle Framework; Conceptual Design; Bio-Balance; Multi-Domain-Matrices (MDMs); Target Costing; TRIZ
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Occurences:
· Einrichtungen > Fakultäten > Fakultät für Maschinenwesen > Institut für Mechatronik > Lehrstuhl für Produktentwicklung, Konstruktionssystematik und Leichtbau (Prof. Zimmermann) > Konferenzbeiträge
· Einrichtungen > Fakultäten > Fakultät für Maschinenwesen > Institut für Mechatronik > Lehrstuhl für Produktentwicklung (Prof. Volk komm.) > Konferenzbeiträge

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