



Environmentally-Friendly Product Development

Eberhard Abele, Reiner Anderl, Herbert Birkhofer

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The modern market economy is founded on economic growth and increasing consumption of manufactured products, leading to over use of resources and environmentally-damaging pollution. We can help protect the environment by focussing on the entire life-cycle of each manufactured product. A holistic view of every stage and process of a product's life-cycle is needed in order to find sound solutions to adverse environmental effects and help us develop a new generation of eco-designed products. Environmentally-friendly Product Development introduces methods to improve the environmental characteristics of products. Every manufactured product has environmental impacts during its life-cycle. These arise in the product's manufacture, use, recycling and disposal. In the past designers have focussed only on technical and economical aspects when developing new products, taking into account market-conditions and their company's resources. However, designing a product in accordance with environmental demands requires that designers consider potential influences from all part of its life-cycle. The book describes an integrated approach that assists designers to develop environmentally-friendly products, illustrating the methods and tools with case studies. Process and information modelling, life-cycle assessment and ecological product optimisation are surveyed in detail. Unique to Environmentally-friendly Product Development is the introduction of the Eco Design Workbench - a computer based design environment that supports the designer during the product development process. Environmentally-friendly Product Development is a comprehensive survey of environmental design. Readers will learn about the complexity of ecological product design and be introduced to methods and tools that can minimise environmental impacts. As well as a practical guide for product designers and design engineers, the book will provide managers in industry with an introduction to the environmental costs involved in a manufacturing economy and signposts to how these may be limited.

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