



The Power of Design: Product Innovation in Sustainable Energy Technologies

Angèle H. Reinders, Jan Carel Diehl, Han Brezet

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The Power of Design offers an introduction and a practical guide to product innovation, integrating the key topics that are necessary for the design of sustainable and energy-efficient products using sustainable energy technologies.

Product innovation in sustainable energy technologies is an interdisciplinary field. In response to its growing importance and the need for an integrated view on the development of solutions, this text addresses the functional principles of various energy technologies next to the latest design processes and innovation methods.

From the perspective of product applications, the book provides clear explanations of technologies that are significant for product integration, such as batteries, photovoltaic solar energy, fuel cells, small wind turbines, human power, energy saving lighting, thermal energy technologies in buildings, and piezoelectric energy conversions. The design processes and innovation methods presented in this book include various approaches ranging from technical, societal and creative methods that can be applied in different stages of the design process.

Other features include:

- a methodological approach, enabling readers to easily apply the theory to their research projects and to the actual design of sustainable products with energy technologies
- discussion on interaction design and smart grid interventions
- colour photographs that illustrate the final products
- numerous case studies of product development projects and concepts in practice, enabling readers to understand and design energy-efficient products in several different markets
- a companion website containing useful information about the cases and an additional design cases with sustainable energy technologies

The Power of Design provides a comprehensive and visually-appealing opening into the subject for third and fourth year students, postgraduates, and professionals in the areas of energy, environment, product design and engineering

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