Routledge Handbook of Sustainable Product Design

In an era marked by growing environmental concerns and the urgency to address the climate crisis, sustainable product design has emerged as a pivotal force driving positive change. The Routledge Handbook of Sustainable Product Design offers a comprehensive and authoritative exploration of this transformative field, providing readers with a practical guide to creating eco-conscious products that minimize environmental impact and maximize social benefit.

Cutting-Edge Insights from Global Experts

Assembled by a team of renowned international experts, this handbook draws upon the latest research and best practices from across the globe. Contributors represent diverse backgrounds in environmental science, design engineering, materials science, and sustainability management, ensuring a holistic understanding of the subject.

Routledge Handbook of Sustainable Product Design

by Jonathan Chapman

★★★★☆ 4.6 out of 5

Language	: English
File size	: 51801 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Print length	: 573 pages

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A Blueprint for Sustainable Innovation

The handbook is structured as a comprehensive blueprint for sustainable innovation, covering all aspects of product design from concept to end-of-life. Chapters explore:

- Defining and Measuring Sustainability in Product Design

- Life Cycle Assessment: Quantifying Environmental Impacts

- Material Selection for Sustainability: Eco-friendly and Circular Options

- Design for Disassembly and Recycling: Enabling Circularity

- User Behavior and Product Longevity: Promoting Sustainable Consumption Patterns

- Case Studies: Real-World Examples of Sustainable Product Design

Practical Tools and Methodologies

Beyond theoretical insights, the handbook offers a wealth of practical tools and methodologies to help designers and engineers integrate sustainability into their design processes. These include:

- Sustainability Assessment Tools

- Eco-design Guidelines and Standards

- Life Cycle Inventory Databases

- Decision-Making Frameworks for Sustainable Product Design

Educating the Next Generation of Designers

The Routledge Handbook of Sustainable Product Design is an invaluable resource not only for practicing professionals but also for students and researchers in the field. Its comprehensive coverage and engaging writing style make it an ideal textbook for courses on sustainable design, green engineering, and environmental science.

Accelerating the Transition to a Greener Future

With the increasing awareness of the urgency to address the climate crisis, the demand for sustainable products is growing rapidly. The Routledge Handbook of Sustainable Product Design empowers designers, engineers, and students to meet this demand by providing them with the knowledge, tools, and inspiration to create eco-conscious products that can make a real difference in the world.

Call to Action

Embracing the principles of sustainable product design is not merely a choice but a necessity for businesses and individuals alike. By adopting the insights and methodologies presented in this handbook, we can transform our consumption patterns, reduce our environmental footprint, and build a more sustainable future for generations to come.
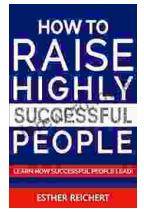
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