



Integrated Product and Process Design and Development: The Product Realization Process, Second Edition (Environmental & Energy Engineering)

Edward B. Magrab, Satyandra K. Gupta, F. Patrick McCluskey, Peter Sandborn

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Since the publication of the first edition of **Integrated Product and Process Design and Development: The Product Realization Process** more than a decade ago, the product realization process has undergone a number of significant changes. Reflecting these advances, this second edition presents a thorough treatment of the modern tools used in the integrated product realization process and places the product realization process in its new context.

See what's new in the Second Edition:

- Bio-inspired concept generation and TRIZ
- Computing manufacturing cost, costs of ownership, and life-cycle costs of products
- Engineered plastics, ceramics, composites, and smart materials
- Role of innovation
- New manufacturing methods: in-mold assembly and layered manufacturing

This book discusses how to translate customer needs into product requirements and specifications. It then provides methods to determine a product's total costs, including cost of ownership, and covers how to generate and evaluate product concepts. The authors examine methods for turning product concepts into actual products by considering development steps such as materials and manufacturing processes selection, assembly methods, environmental aspects, reliability, and aesthetics, to name a few. They also introduce the design of experiments and the six sigma philosophy as means of attaining quality.

To be globally viable, corporations need to produce innovative, visually appealing, quality products within shorter development times. Filled with checklists, guidelines, strategies, and examples, this book provides

proven methods for creating competitively priced quality products.

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