



## **Integrated Product and Process Development: Methods, Tools, and Technologies (Engineering Design and Automation)**

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# Integrated Product and Process Development: Methods, Tools, and Technologies (Engineering Design and Automation)

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The phenomenal success of integrated product and process development (IPPD) at such companies as Boeing, Motorola, and Hewlett-Packard has led many manufacturers to place renewed emphasis on this critical aspect of concurrent engineering. If you are among those charged with the daunting task of implementing, upgrading, or maintaining IPPD, you need a single reference/handbook that covers all of the tools, technologies, and applications that support IPPD. You need Integrated Product and Process Development.

Emphasizing applications, this extremely user-friendly guide covers everything from basic principles to cutting-edge research. It addresses ideas and methods in product design as well as issues related to process design and manufacturing. Case studies illustrate the application of various tools and techniques of IPPD in manufacturing for the defense industry, making the most of product planning, applications of quality function deployment (QFD), the effective use of design optimization, and integrating design and process planning.

Other topics covered include:

- \* Identifying customer needs using QFD.
- \* Issues and constraints in time-driven product development.
- \* Enhancing automated design systems with functional design.
- \* Rapid prototyping.
- \* Case-based process planning systems

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