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Engineering Design: Products, Processes, and Systems

Andrew Kusiak

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Engineering Design: Products, Processes, and Systems Andrew Kusiak
Written by a world class expert in design engineering, this book introduces the reader to models, frameworks, methodologies, and algorithms that have been applied with great success in industry. These approaches have significantly reduced product development cycle time and improved product and process quality and reliability. Engineering design impacts a wide range of tasks, beginning with the recognition of customer needs and ending with the disposal of the designed artifact. **Engineering Design: Products, Processes, and Systems** is unique in presenting a process view that allows for uniform treatment of problems and issues over the entire product life cycle. The reader will acquire a complete understanding of process modeling methodologies, process reengineering, the organization of design teams, design for manufacturing, and problem solving from tolerance design to product modularity and negotiation among members of the design team.
The book is liberally illustrated with industrial case studies and examples, and is written to meet the needs of senior undergraduate and graduate students, designers, systems analysts, software engineers, managers, and other practitioners. As the book emphasizes modeling and analysis of the design process, it is of interest to numerous disciplines, including industrial, mechanical, electrical, systems, and software engineering, as well as to various business areas such as operations management and management science. Significant portions of the material apply to the service sector, including healthcare.
Web-Resident Supplementary Materials
Power Point slides are available for all sixteen chapters, including solutions to all problems presented at the end of each chapter. JAVA and Visual BASIC software can be provided for selected algorithms. To obtain access to the educational materials, contact the author by email at andrew-kusiak@uiowa.edu.
Access to a leading process modeling software package is also included. Instructions for accessing and using the software are included in an appendix.

Key Features
* Reduce time in the product development cycle
* Improve quality, productivity, and reliability of products and processes
* Effectively manage the design process
* Solve practical design problems
* Design modular products
* Design products and systems for a manufacturing environment
* Form multidisciplinary design teams
* Develop a virtual design environment

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