



e-Design: Computer-Aided Engineering Design

Kuang-Hua Chang

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e-Design: Computer-Aided Engineering Design, Revised First Edition is the first book to integrate a discussion of computer design tools throughout the design process. Through the use of this book, the reader will understand basic design principles and all-digital design paradigms, the CAD/CAE/CAM tools available for various design related tasks, how to put an integrated system together to conduct All-Digital Design (ADD), industrial practices in employing ADD, and tools for product development.

- Provides a comprehensive and thorough coverage on the essential elements for practicing all-digital design (ADD)
- Covers CAD/CAE methods throughout the design process, including solid modelling, performance simulation, reliability, manufacturing, cost estimates, and rapid prototyping
- Discusses CAD/CAE/CAM/RP/CNC tools and data integration for support of the all-digital design process
- Reviews off-the-shelf tools for support of modeling, simulations, manufacturing, and product data management
- Provides tutorial type projects using ProENGINEER and SolidWorks for readers to exercise design examples and gain hands-on experience
- Contains a series of running examples throughout the book that illustrate the practical use of the ADD paradigm and tools

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