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e-Design is the first book to integrate discussion of computer design tools throughout the design process. Through this book, the reader will understand...

- Basic design principles and all-digital design paradigms.
- 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 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 modelling, 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
- A series of running examples throughout the book illustrate the practical use of the ADD paradigm and tools

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Editorial Review

About the Author

Dr. Kuang-Hua Chang is a David Ross Boyd Professor and Williams Companies Foundation Presidential Professor for the School of Aerospace and Mechanical Engineering (AME) at the University of Oklahoma. He received his PhD in Mechanical Engineering from the University of Iowa in 1990. His areas of interest include Virtual Prototyping, CAD, Fatigue and Reliability Analysis, Tools and Information Integration for Concurrent Design and Manufacturing, Solid Freeform Fabrication, and bioengineering applications. His research has been published in eight books and more than 150 articles in international journals and conference proceedings.

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