



Rapid Prototyping:Principles and Applications (with Companion CD-ROM) (Book & CD Rom)

Chee Kai Chua, Kah Fai Leong, Chu Sing Lim

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Rapid prototyping (RP) has revolutionized how prototypes are made and small batch manufacturing is carried out. With rapid prototyping, the strategies used to produce a part change a number of important considerations and limitations previously faced by tool designers and engineers. Now in its third edition, this textbook is still the definitive text on RP. It covers the key RP processes, the available models and specifications, and their principles, materials, advantages and disadvantages. Examples of application areas in design, planning, manufacturing, biomedical engineering, art and architecture are also given. The book includes several related problems so that the reader can test his or her understanding of the topics. New to this edition, the included CD-ROM presents animated illustrations of the working principles of today's key RP processes.

Contents:

- Rapid Prototyping Process Chain
- Liquid-Based Rapid Prototyping Systems
- Solid-Based Rapid Prototyping Systems
- Powder-Based Rapid Prototyping Systems
- Rapid Prototyping Data Formats
- Applications and Examples
- Medical and Bioengineering Applications
- Evaluation and Benchmarking

Readership: Diploma and advanced diploma students, undergraduates, postgraduates, consultants, academics and professionals in mechanical and industrial engineering.



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