



3D Printing and Additive Manufacturing : Principles and Applications (with Companion Media Pack) Fourth Edition of Rapid Prototyping

By Chee Kai Chua, Kah Fai Leong

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3D Printing and Additive Manufacturing (AM) has revolutionised how prototypes are made and small batch manufacturing carried out. With additive manufacturing, the strategies used to produce a part change a number of important considerations and limitations previously faced by tool designers and engineers.

This textbook is the fourth edition of *Rapid Prototyping: Principles and Applications*. It covers the key AM processes, the available models and specifications, and their principles, materials, advantages and disadvantages. Examples of application areas in design, planning, manufacturing, biomedical engineering, entertainment, weaponry, art and architecture are also given. The book includes several related problems for the reader to test his or her understanding of the topics. This edition comes with a companion media pack that presents animated illustrations of the working principles of today's key AM processes.

Contents:

- Introduction
- Additive Manufacturing Process Chain
- Liquid-Based Additive Manufacturing Systems
- Solid-Based Additive Manufacturing Systems
- Powder-Based Additive Manufacturing Systems
- Additive Manufacturing Data Formats
- Applications and Examples
- Medical and Bioengineering Applications
- Benchmarking and the Future of Additive Manufacturing

Readership: Secondary school students, junior college students, diploma and advanced diploma students, undergraduates, postgraduates, consultants, academics, researchers and professionals in mechanical and industrial engineering.

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Editorial Review

Review

"This is the most comprehensive and relevant textbook in the field of 3D Printing and Additive Manufacturing. Whenever I teach subjects related to rapid product development I use this book as a reference. My students appreciate the easy way the information is introduced very much. This is an excellent book for both undergraduate and postgraduate students." -- Paulo Jorge Bartolo, Polytechnic Institute of Leiria, Portugal

"This book has now become a standard textbook all over the world. It's a 'must-have' for students and practitioners in this exciting area." -- Bopaya Bidanda, University of Pittsburgh

"Whenever I start my students off on a project that involves 3D Printing and Additive Manufacturing (AM), and they say 'what is AM?', this is the book I give them to read. This book is an excellent introduction to AM." -- Dr Ian Gibson, Co-Editor of Rapid Prototyping Journal, MCB Press, UK and Advisor, Global Alliance of Rapid Prototyping Associations (GARPA)

From the Inside Flap

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Users Review

From reader reviews:

Robert Farley:

Nowadays reading books are more than want or need but also turn into a life style. This reading practice give you lot of advantages. The benefits you got of course the knowledge your information inside the book in which improve your knowledge and information. The data you get based on what kind of publication you read, if you want get more knowledge just go with education and learning books but if you want sense happy read one having theme for entertaining for example comic or novel. The particular 3D Printing and Additive Manufacturing : Principles and Applications (with Companion Media Pack) Fourth Edition of Rapid Prototyping is kind of reserve which is giving the reader unstable experience.

Ramiro Alvarez:

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