

# Additive Manufacturing Technologies: 3D Printing, Rapid Prototyping, and Direct Digital Manufacturing

Ian Gibson, David Rosen, Brent Stucker



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This book covers in detail the various aspects of joining materials to form parts. A conceptual overview of rapid prototyping and layered manufacturing is given, beginning with the fundamentals so that readers can get up to speed quickly. Unusual and emerging applications such as micro-scale manufacturing, medical applications, aerospace, and rapid manufacturing are also discussed. This book provides a comprehensive overview of rapid prototyping technologies as well as support technologies such as software systems, vacuum casting, investment casting, plating, infiltration and other systems.

This book also:

Reflects recent developments and trends and adheres to the ASTM, SI, and other standards

Includes chapters on automotive technology, aerospace technology and low-cost AM technologies

Provides a broad range of technical questions to ensure comprehensive understanding of the concepts covered

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