



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

By 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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Editorial Review

Review

“Readers desiring a comprehensive introduction to the many technologies of AM should be satisfied. Although it is aimed primarily at students and educators, the authors do very well to appeal to those in research and manufacturing positions too. Excellent explanations of basic concepts through to the state-of-the-art make this a great starting point for in-depth research, whilst the process selection tools and business opportunities chapters will be very useful for manufacturers looking to explore this technology.” (Jonathan Edgar and Saxon Tint, Johnson Matthey Technology Review, Vol. 59 (3), 2015)

From the Back Cover

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Dr. Brent Stucker is a Professor and Clark Chair of Computer Aided Engineering at the University of Louisville.

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