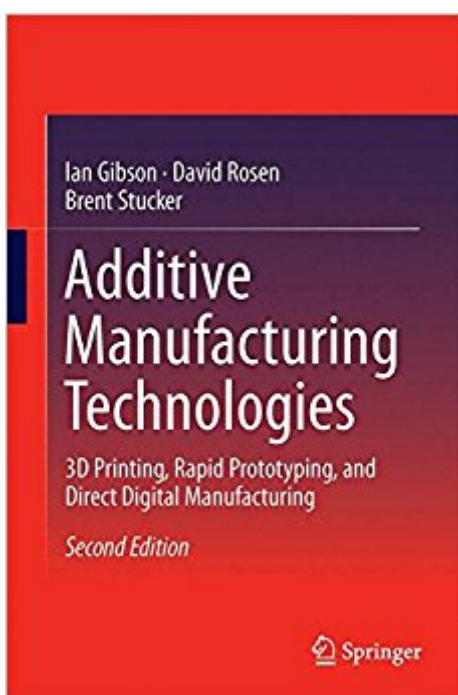




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Additive Manufacturing Technologies: 3D Printing, Rapid Prototyping, And Direct Digital Manufacturing



Synopsis

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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Customer Reviews

“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)

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Comprehensive information on 3D printing, using various methods. Technical, but not impenetrable. Keep in mind that this information will age very quickly, given the quick evolution of 3D printing technologies, so some references to specific products and machines are already out-of-date. A worthy attempt to provide a snapshot of this technology at the time of publication. My hope is that the publisher and/or author can revise this book on an annual basis, so that it can remain current with the state of the art.

The most coherent and complete resource that I've been able to find for information on the available technologies in this industry.

Poorly written and questions require excessive googling with no conceivable benefit. Of course if you're looking at this you probably have no choice. Enjoy.

This is a weird combination of an overview/introduction to the technology and an organic chemistry text book for people in industry. It seems way too detailed in parts that would only matter if you owned a machine and were trying to select the best supplier for chemicals. To fully understand this book, you need a degree in organic chemistry, thorough understanding of lasers, and lots of patience. If your teacher is assigning you to answer every question at the end of the chapters you should either run or be prepared to learn a lot on your own. Many of the questions can not be answered with material in the book and requires extensive research. As I have read more of this book, I keep finding blatant errors. There are sentence fragments, typos, and many of the tables

have glaring issues. Several tables give a date as a deposition rate, an error you could spot without knowing anything about engineering. It's hard to tell if this book was sponsored by a manufacturer, but there is a lot of information promoting one machine over another.

Quick delivery. As described.

The quality is really good !! I got a brand new book !!

Thanks! Arrived as advertised.

The book is in fact very new and a great compilation of new 3D printing. The problem I had was the binding of this specific book has come off, and along with it pages have been slipping out over the past 3 weeks that I've owned this book. 3 weeks!!! I've thrown it into my bookbag and opened it for READING (duh), highlighting, etc, but I've never actually had pages fallen out of a book before. Not sure if this is the seller's or mnfg's fault.

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