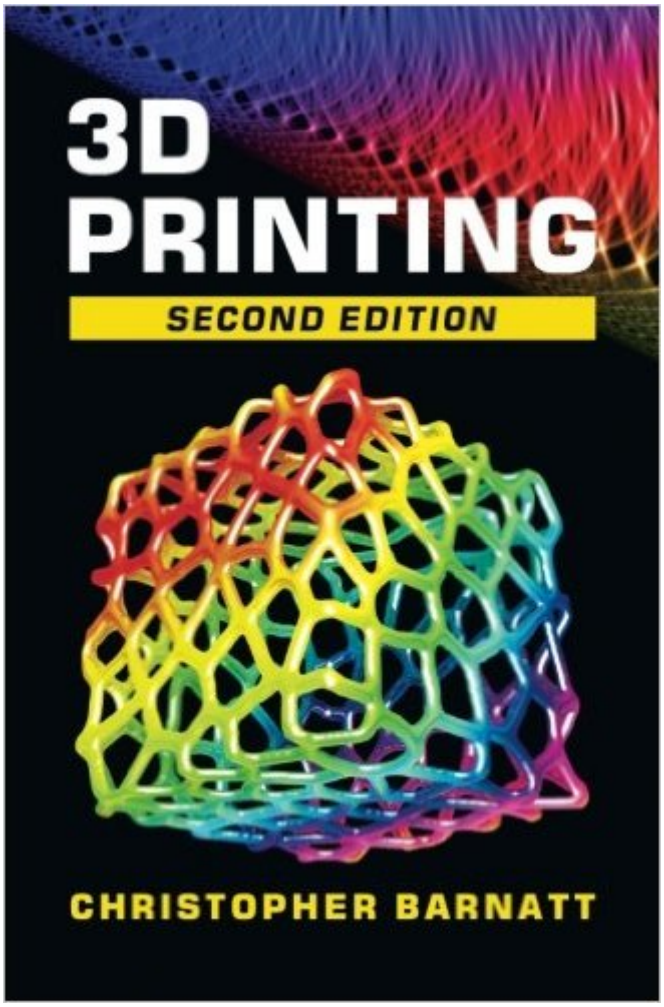
3D Printing: Second Edition



Synopsis

3D Printing: Second Edition is a major update of the highly popular 3D Printing: The Next Industrial Revolution. The book provides an extensive overview of all 3D printing technologies, together with a detailed analysis of the 3D printing industry, and broader predictions for future digital manufacturing. Already it is possible to 3D print in hundreds of different plastic, metal and ceramic materials, with pioneers now 3D printing molds, aerospace components, jewelry, works of art, toys and medical devices. While traditionally 3D printing has been used for rapid prototyping, by 2020 most things that are 3D printed will be industrial tooling or final products. Already more than half a million 3D printable files are listed on object sharing websites, with desktop 3D printers that can fabricate them priced from $500. Meanwhile doctors are learning how to bioprint replacement human organs. 3D Printing: Second Edition is written by Christopher Barnatt of ExplainingTheFuture.com. The book features over one hundred interviews, examples and illustrations, and is a valuable resource for all enthusiasts, entrepreneurs, designers, investors and students who want to remain up-to-date with the Next Industrial Revolution. The complete contents of the book are as follows: Preface 1: The Next Revolution -- explaining why 3D printing matters and its four key marketplaces. 2. 3D Printing Technologies -- detailing every technology on the market or in the lab. 3: The 3D Printing Industry -- a global overview of leading manufacturers, software providers and bureau services. 4: Direct Digital Manufacturing -- reporting on pioneers who are already 3D printing consumer products, industrial components and medical devices. 5: Personal Fabrication -- an overview of personal 3D printers, 3D scanners and the Maker Movement. 6: Bioprinting -- how research teams are working to 3D print replacement human body parts. 7. 3D Printing in Context -- how 3D printing, synthetic biology and nanotech will converge to enable local digital manufacturing. 8: Brave New World? -- separating probable fact from science fiction to predict the real 3D printing future. Glossary -- 133 key terms and technologies precisely defined. 3D Printing Directory -- a comprehensive listing of industrial and personal 3D printer manufacturers, software packages, bureau services and online object repositories. Further Reading Index

Book Information

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Customer Reviews

After purchasing the first edition of this book I was eager to read the second edition when it came out a few months ago. The first edition was a great read and although I already know a fair amount about 3D printing I still found it very enjoyable and informative. I was surprised at how much I learned from it.This new edition is a complete re-write of the original and is full of very up to date, original and interesting content. It’s easy to read and I found it very thought provoking and inspiring. It’s a great read for the 3D printing beginner and expert alike, as there’s something for everyone in here.I was a little shocked to read a previous review that mentioned that the book had no images. Before writing this review I had a quick flick though my copy and counted 56 images. I may well have missed some too. I think this reviewer must have been talking about a different book because the fact is that this book is full of photos, diagrams and graphs which the author uses to help illustrate the points he’s making.I still refer to my copy all the time, as after the first read it makes a great reference book. The extensive glossary is particularly useful too as those who know a little about 3D printing will appreciate that there are a multitude of confusing terms, phrases and acronyms in the 3D printing world. This book will help you make sense of them all.If you’re thinking of buying this book I can personally recommend it. The author Chris Barnatt has done a great job of creating this book. As well as an being author, he is a futurist, speaker and an Associate Professor of Strategy and Future Studies at Nottingham University. He really does know his stuff when it comes to 3D printing and this book is a great demonstration of that.

I enjoyed Mr. Barnatt’s first book on 3D printing, and enjoyed 3D Printing: Second Edition even more. The chapter on 3D Printing Technologies (Chapter 2) does a great job of explaining the various methods of additive manufacturing in layman’s terms, and his thoughts/predictions on where 3D printing is likely headed are well-grounded and based on facts and probable facts. Overall a great read, and very informative.

Good overview and good at being up to date. 3D printing is moving extremely fast so keeping up to date is impossible for any book but Second Edition does a good job of getting us up to 2015.The problem I am having now is trying to understand what material is needed for my projects and what printers handle the material I want to use. Second Edition does a good job of mentioning printers and materials but I will need to ask more questions and read many reviews. The information in Second Edition has encouraged me to jump in soon with the idea that my first few attempts perhaps will be written off as learning experiences.

I really enjoy reading about this new technology and the established and growing industries around it.Note that this is NOT a book to make you an expert at designing products or running 3D printers. It is rather a book about the 3D printing industry.

This is a good book to learn how 3D printing is going to change things in the future. I was kind of expecting a book on "how to" 3D print, but it only goes into general details on how the machines work and what they can do. It’s a good book for general research.

This book has been written perfectly for those who want to get quick first review on 3D phenomenon. Now, I would like to get acquainted much deeper with the production of 3D printers that work with metal powders or metal oxide powers and produce industrial prototypes and produce varius parts and accessories for automotive industries, aircraft industries (like Airbus), or power stations turbines, moulds, tools and jigs etc. Akso I would like to know which parts/accessories/jigs, tools etc. are or can be shortly produced for the producers in the above mentioned industries?Would be in a position of assisting me in such a investigation, for example telling me the adequate references on same, or to get me in touch with Mr.?Many thanks and best regards,VladimÃ- r Hanzlik

This book has depth and explains the various critical aspects of the nascent 3D printing technology and industry. It’s a must read. I bought a few other books and this is one of the best. I’d highly recommend it as a starting point, or the sharpen one’s understanding of the topic.

I have read a lot of Christopher Barnatt’s other books and bought this one via iBooks. I’m about half way through and find it very, very insightful.

Colour printing. A practical Demonstration of Colour Printing by Letterpress, photo-offset, Lithography and Drawn Lithography with illustrations demonstrating alternative methods of production and including a comprehensive colour chart. Gelli Printing: Printing Without a Press on Paper and Fabric Printing by Hand: A Modern Guide to Printing with Handmade Stamps, Stencils, and Silk Screens How to Make Money with 3D Printing: Start Your Own 3D Printing Business in Less Than 30 Days 3D Printing: Second Edition Left Behind (Book 1) 1st ed/1st printing edition Chinese Acupuncture and Moxibustion (Third Edition 2009, Seventeenth Printing 2016) Work The System: The Simple Mechanics of Making More and Working Less (Revised third edition, 4th printing, September 1, 2014) Photoshop Cs4: Color Printing, Ace Edition + Certblaster + Data (ILT) Essential SNMP, Second Edition 2nd (second) Edition by Mauro, Douglas, Schmidt, Kevin published by O'Reilly Media (2005) Grammar of the Shot, Motion Picture and Video Lighting, and Cinematography Bundle: Grammar of the Shot, Second Edition 2nd (second) Edition by Bowen, Christopher J., Thompson, Roy published by Focal Press (2009) Crucial Accountability: Tools for Resolving Violated Expectations, Broken Commitments, and Bad Behavior, Second Edition: Tools for Resolving Violated Expectations, ... and Bad Behavior, Second Edition AUDIO Minimum Design Loads for Buildings and Other Structures, 3rd Printing (Standard ASCE/SEI 7-10) 3D CAD with Autodesk 123D: Designing for 3D Printing, Laser Cutting, and Personal Fabrication Design for 3D Printing: Scanning, Creating, Editing, Remixing, and Making in Three Dimensions Sketching (12th printing): Drawing Techniques for Product Designers Sketching: The Basics (2nd printing) Mastering the Art of Fabric Printing and Design Scientific Illustration: A Guide to Biological, Zoological, and Medical Rendering Techniques, Design, Printing and Display Offset Lithography a Treatise on Printing in the Lithographic Manner, from Metal Plates on Rubber Blanket Offset Presses, With Which Is Incorporated, ... on Tin Plate Decorating (Classic Reprint)