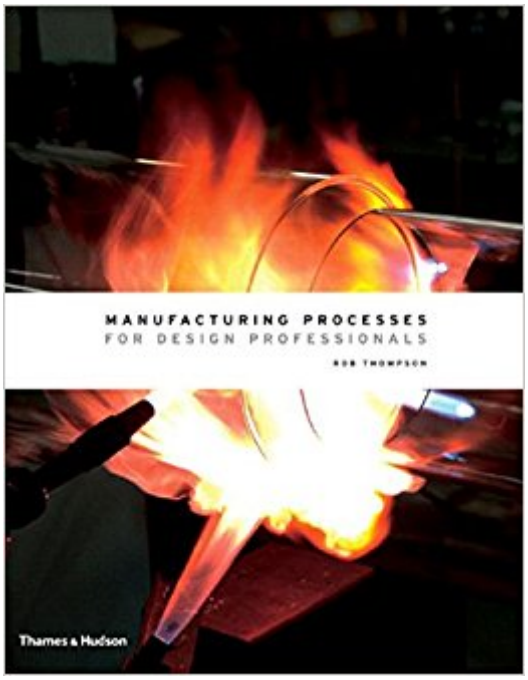
Manufacturing Processes For Design Professionals



Synopsis

An encyclopaedic guide to production techniques and materials for product and industrial designers, engineers, and architects. Today’s product designers are presented with a myriad of choices when creating their work and preparing it for manufacture. They have to be knowledgeable about a vast repertoire of processes, ranging from what used to be known as traditional "crafts" to the latest technology, to enable their designs to be manufactured effectively and efficiently. Information on the internet about such processes is often unreliable, and search engines do not usefully organize material for designers. This fundamental new resource explores innovative production techniques and materials that are having an impact on the design industry worldwide. Organized into four easily referenced partsÃ¢â ¬â ¢Forming, Cutting, Joining, and FinishingÃ¢â ¬â ¢over seventy manufacturing processes are explained in depth with full technical descriptions; analyses of the typical applications, design opportunities, and considerations each process offers; and information on cost, speed, and environmental impact. The accompanying step-by-step case studies look at a product or component being manufactured at a leading international supplier. A directory of more than fifty materials includes a detailed technical profile, images of typical applications and finishes, and an overview of each material’s design characteristics. With some 1,200 color photographs and technical illustrations, specially commissioned for this book, this is the definitive reference for product designers, 3D designers, engineers, and architects who need a convenient, highly accessible, and practical reference. 1,200 color photographs and illustrations

Book Information

Hardcover: 528 pages

Publisher: Thames & Hudson; Reprint edition (November 30, 2007)

Language: English

ISBN-10: 0500513759

ISBN-13: 978-0500513750

Product Dimensions: 8.9 x 1.8 x 11.4 inches

Shipping Weight: 5.6 pounds (View shipping rates and policies)

Average Customer Review: 4.6 out of 5 stars 65 customer reviews

Best Sellers Rank: #30,869 in Books (See Top 100 in Books) #11 inÃ Â Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Manufacturing #25 inÃ Â Books > Arts & Photography > Decorative Arts & Design > Industrial & Product Design #241 inÃ Â Books > Arts & Photography > History & Criticism

Customer Reviews

Rob Thompson is an internationally recognized expert on materials for design. He has helped develop a range of products for global clients, including LG Electronics, Panasonic and Nokia, where he was formerly Principal Designer. He has taught at the Royal College of Art and Central Saint Martins, London.

I was beyond pleasantly surprised with this book. I would describe it as more than just a compendium of manufacturing techniques and materials. The descriptions, photos and illustrations (1,200+) extend well beyond brief encyclopedic articles. Many of the processes are described in detail. The book is divided into five sections that have conveniently color coded edges. I was also shocked at the high quality printing (2014 reprint). It is on par with collectible art books.Could the book be improved - of course, It was written in 2007. If/when Rob Thompson creates an updated edition, I will be among the first to purchase it. The biggest shock factor was the price. With my Prime membership, I bought this book for $62 making it a no-brainer purchase decision. Enjoy.

If you are looking to buy a book on manufacturing processes, look no further. This is by far the best book I've ever read and it's tough to find in public libraries as it is always in demand. Descriptions are detailed and relevant pictures makes it easy to understand. This makes the whole book very lively instead of a bunch of equations and derivations/explanations. I bought this book from Hay-on-Wye booksellers. Their service takes awhile to reach from UK to US but they do ship a quality product. Would definitely recommend this book to any manufacturing engineer/design professionals.

This is a really cool book and provides excellent pictures of manufacturing processes and materials. It was required reading for a class in grad school and unfortunately it was a better purchase than the actual class lectures. It will be especially useful in the future as a reference guide for these processes and materials.

What an awesome book. This book would be great for just about anyone. Teens, college students, and even manufacturing professionals can garner a lot from all the great information. I never knew there were so many ways to manufacture products -- and that's my business!! Ended up buying one for each of my business associates and vendors. Wish I had this years ago!

What an incredible resource to have for designers and curious minds, alike! I've always been the type that feels the need to get to know how things work and more and more find myself drawn to the world of manufacturing and have never found a good resource for the enormous amount of techniques that are used to create the many products that we enjoy day to day. This book couldn't have gotten it more right! As an architect with interests extending well beyond architecture into industrial and furniture design, this book is going to be a go to for me for a long time to come! Can't wait to order the other books within the series.

I absolutely love this book. I wish I had it while I was in undergrad. My friend found it and shared it with me; then I bought myself a copy. When I showed it at work (I work in consumer product development), we bought two copies for the office.This is an excellent book because:It is well-organized. You can use it as a reference, or read it like a novel. There are two main sections: processes and materials. Processes is further broken into Forming, Cutting, Joining, and Finishing functions.It is modern- it was first published in 2007.Each processes illustrated has a table with bullet lists with the important information about the process. (on the "Blow Molding" process, it shows "Costs, typical applications, suitability, quality, related processes, and speed".Each process has drawing illustrating the process and a case study.Really, this is a great book, for anyone in the product development industry.

This book exceeded my expectations. It's a very large, hardcover book with great organization and reference sections in the back. I also own a few other books on the same subject, but if I could only keep one, this would be the one. I am an industrial designer and I've been working in the industry for almost 4 years. I still feel like there is a lot to learn, but this book will definitely give me an edge!

Had to get this book for a products and manufacturing class in college.Wonderful visuals, examples of very neat products, and thorough explanations. I read it cover to cover.Works great as a textbook, a coffee table book, or a gift. I use it now as a reference in my engineering work.Very solid hardcover book with high quality color pages. You will be impressed.

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