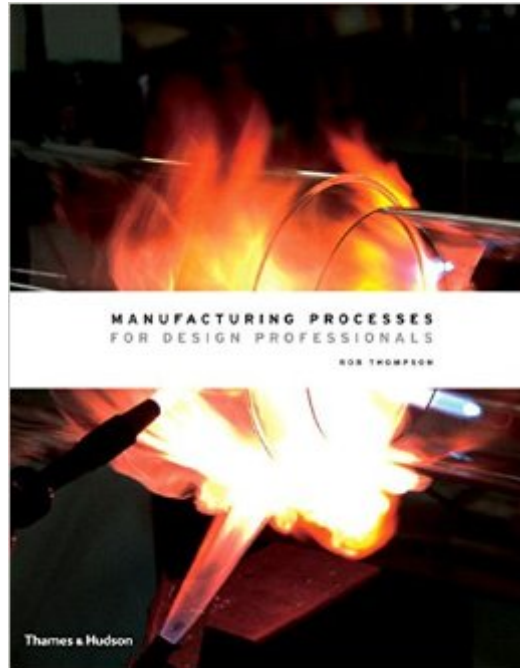


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# Manufacturing Processes For Design Professionals



## 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 parts—Forming, Cutting, Joining, and Finishing—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

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## Customer Reviews

I graduated from mechanical engineering school about a year ago and got a job shortly after. If it's one thing I've learned, it's how grossly unprepared school made me for designing manufacturable parts and explaining manufacturing techniques in any sort of detail. Thankfully, this book fills the gap nicely. I'd consider this book an encyclopedia of virtually every kind of manufacturing technique out there. And the author explains things quite eloquently, in a concise and consistent manner. Thousands of diagrams and full-color photographs aid the explanations. Quick, at-a-glance facts about the different techniques tell you their costs and suitability for various situations. Perhaps most importantly, tons of case studies are scattered throughout which put real-world examples to the topics. I was a little skeptical after reading other reviews mentioning this book is only good for furniture design. That's not true. While certain manufacturing techniques are covered that may be mostly suitable for furniture design versus other, engineered parts, this book covers manufacturing techniques for engineers like casting, forming, and molding. To be honest I'm surprised such a high-quality book sells for only \$50, considering I've easily paid twice that for books in college that weren't nearly as informative or helpful. I'm just sad I didn't find and buy this book months ago when I was struggling to research this information online (and trust me I never found a web site or web sites that compare to this book).

As an industrial designer and a professor of ID at a Furniture Design college, I am very pleased with this book. It is probably the best book of its kind, so far, covering most processes and describing them in the most excellent manner (with nice diagrams, case studies etc). I would love to see bigger pictures in the next edition. This can be used as a great reference textbook! A big "thank you" to Rob Thomson and the publishers!

Buy this instead of "Prototyping and Low-Volume Production" by the same author. The information is quite poorly organized. It is more of an overview of each process and some of its uses rather than an encyclopedic description of each. This + wikipedia is pretty much all you need on almost every manufacturing process you will encounter in design. Gripes: The index is terrible. I have probably not seen a worse index in a technical resource in I don't know, ever! For example, if you want to look up Vacuum Forming it is not listed under Vacuum. You must First look up thermoforming before you find it. What if you don't know this? Pressure Forming is also not listed, nor are MANY other processes. Want to get material information about ABS? Look up ABS in the index and it won't give you anything. You have to look under styrene, and then it gives you 1 sentence on all of the 6

different types of styrenes that are out there. Terrible resource for materials. Want to learn about something called Bendy wood? Sure, you will never EVER encounter it in design, but there is a bunch of info on it. Thrilling.

This is a phenomenal resource. I bought this book as a required text for a materials and processes class and it is likely the best textbook I own. Easy, color-coded reference, full-color glossy images, and up-to date (for 2008) processes. Not only does it give easily understandable descriptions of the actual manufacturing processes, but it goes on to give typical applications, related processes, quality considerations, design opportunities and considerations, compatible materials, costs, and environmental impacts for every material and process in the book! It also gives case studies of actual products that exemplify many of the products covered. This is a comprehensive resource that I'll own and use for a long time.

It is an excellent book on manufacturing processes and materials. Not overbearingly technical, just the right thing for designers. A step in the right direction, like Ashby and Johnson's book *Materials and Design: The Art and Science of Material Selection in Product Design*

I got this book to solve a problem I had trying to find how to make a part for furniture. Not only did I find it but I found something better and other ideas for future projects. Great for artist and designers. It goes through Metal, wood, plastic and even silkscreening, laser cutting etc. But the hard part is finding a company that has this equipment.

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 process 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.

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