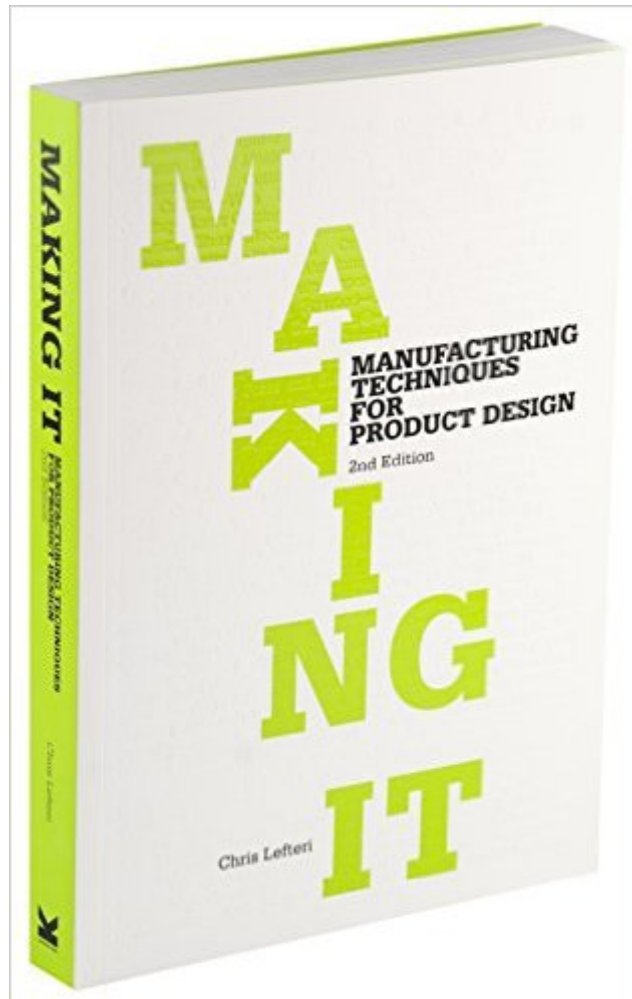


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# Making It: Manufacturing Techniques For Product Design



## Synopsis

There are many ways in which a product can be manufactured but most designers know only a handful of techniques. Informative and incredibly easy to use, this bestselling book discusses more than a hundred production methods in detail. Making It appeals not only to product designers but also to interior, furniture, and graphic designers who need access to a range of production methods, as well as to all students of design. This expanded edition includes nine new processes and an all-new section of over 40 finishing techniques.

## Book Information

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## Customer Reviews

This book just takes the complicated stuff out of understanding how things are made. It's a great quick reference not just because of the concise information in it but also the size of the book makes it easy to carry with you. Highly recommended book for engineering/industrial design students, teachers and anyone interested in understanding what processes "things" go through before they end up in stores.

This is a great book for someone like me, a product design student. As my institution doesn't really cover manufacturing processes I need a book like this to break it down for me. It is categorised well and the crudely drawn process diagrams are great at putting the procedures into perspective. This book is great for those who already have a basic knowledge of manufacturing and design process terminology as it assumes the reader is familiar with terms such as draft, tooling, die, section, profile

and other phrases specific to manufacture and design, although it does have a rather limited glossary at the rear. I would highly recommend it to students who struggle with the ins and outs of manufacturing as it has common items listed that are produced by a specific process, giving the info a tangible basis of understanding, as well as providing many "Oh, THAT's how they make that..." moments. I think this will be a great handy reference for me, enabling me to short list viable processes that I can then investigate further. Definitely worth the money.

A catalog of processes is essentially what this book is. It's broken into 7 process sections: Cut from Solid, Sheet, Continuous, Thin & Hollow, Into Solid, Complex and Advanced. Each section has from 6-20 subset processes, eg, 'Cut From Solid' includes CNC machining, Turning, etc., 'Into Solid' has Forging, Sintering, 'Thin and Hollow' processes such as Blow Molding, Filament Winding, etc. The range of processes seems quite comprehensive and includes some I'd never heard of before such as Inflating Metal under the Sheet section, which is basically using air to inflate sheets of metal in a mold. Each process is typically described in 2-3 pages and follows a common layout. There's a picture of a typical item produced, some text describing the process, and an information section which includes economic production volume, type of surface and finish, and the typical sizes and tolerances of parts produced. This is followed by a '+' and '-' list of advantages and disadvantages of the particular process. A Further Information section on each process lists web addresses of manufacturers who supply the process and/or provide more information on it. This is a great resource, but you do wonder--given the fluidity of the web--how long some of these addresses will be viable. For the price this book is a great catalog of many of the manufacturing processes available. It doesn't go into any detail on how to design for the process (as a designer) or make it function (as a machinist/manufacturer), but it's a great reference as an overview of available processes, their benefits and limitations, and where to go to get more information.

great book about current manufacturing process. Many photos and diagrams makes it easy to understand even for non-industrial designers. Also, each process lists it's pros and cons in a comprehensive manner. Overall, an amazing book which is easy and fun to read even for amateurs like myself.

I bought this book so that I could have a good reference book on manufacturing processes as I'm a design student, but as some other reviewer noticed it is not useful without some knowledge in the first place. While some of the processes explained have enough pictures, some have to few, or just

the final product. I wouldn't have bought this one but rather "Manufacturing Processes for Design Professionals" now that I own the other one. At least for me I didn't yet find a book that would explain more of the traditional processes, I guess I'll dwell in the university library for some time as the specialized literature there though older could help me a lot more on this subject. But as for future technologies this book is fine enough I think, I found out things I wouldn't find in a library with literature from the '70s.

Someone turned me on to this book, it's a great primer for people who like to make things. Not only does it introduce you to new manufacturing methods you may not have been aware of, it helps people think in terms of manufacturing at scale. Sure, you can 3D print a few pieces to sell, but that doesn't scale well if your market size is bigger than 10 people. Some of the info seems to be not from first-hand knowledge and slightly incorrect, but over-all it's a great book and worth buying if you are an amateur Maker.

This could be a helpful reference for various production methods, but unfortunately it contains some critical errors. For example, the description for CO<sub>2</sub> silicate casting is quite bogus -- you cannot convert sodium silicate into CO<sub>2</sub>, of course.

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!!

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