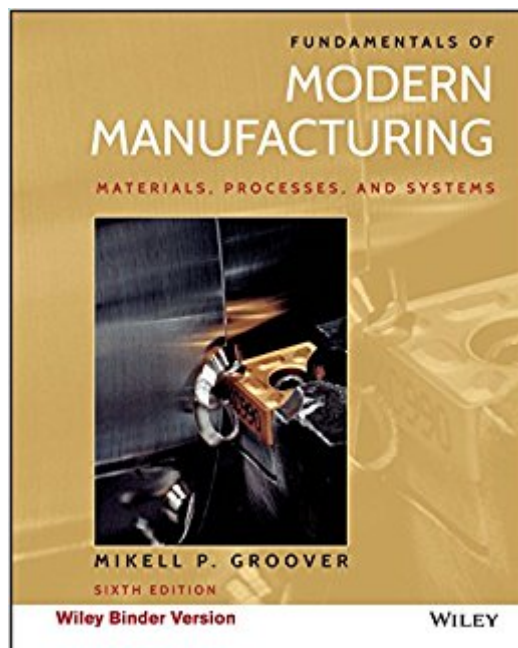


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# Fundamentals Of Modern Manufacturing, Binder Ready Version: Materials, Processes, And Systems



## Synopsis

Fundamentals of Modern Manufacturing: Materials, Processes, and Systems, 6th Edition, is designed for a first course or two-course sequence in Manufacturing at the junior level in Mechanical, Industrial, and Manufacturing Engineering curricula. As in preceding editions, the author's objective is to provide a treatment of manufacturing that is modern and quantitative. The book's modern approach is based on balanced coverage of the basic engineering materials, the inclusion of recently developed manufacturing processes and comprehensive coverage of electronics manufacturing technologies. The quantitative focus of the text is displayed in its emphasis on manufacturing science and its greater use of mathematical models and quantitative end-of-chapter problems. This text is an unbound, three hole punched version.

## Book Information

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## Customer Reviews

I think 45 chapters contain in this book are interesting from of mechanical engineering.point of view, by moment, my opinion only is referenting some of them.Chapters on casting process, machining, and metal working are writing wiith great details, figures, charts, etc. are easy to understand for a reader with basic knowledge , no experience in a manufacturer field.I like the modern approach of this book because include CNC machining,centers and I know this subject has a high impact today.So I recommendate to buy and read this book for reader who interesting on the subjects abouth mechanical engineering.Jaime Z.February 13, 2014

This is a good textbook. Well worth having.

Great book for general concepts

No review

It is an ok book but most of the information is on Google for free.. Focuses on some of the wrong concepts from my experience in industry.

This magnificent 1,000 page 5th edition of a timeless classic on manufacturing is as much a practical handbook as it is a text. Each page is PACKED with useful formulas, examples, pictures and diagrams solving practical HOW TO problems in manufacturing, from materials science to casting, molding, sintering, welding and much more, including metals, plastics, glass, integrated circuits and far more. There are supposedly only 63 "formal" problems in the whole text, but needless to say the examples themselves, on nearly every page, give practical solutions, rules of thumb, shortcuts and even rigorous formulas where required (although few proofs or derivations, as this is more on the practical side, which is perfect for an applied audience but not if you're teaching theory and proofs of the equations). Some economics are covered, but not a lot, and not in depth, as other texts focus on that aspect as specialties. I also use this to teach online classes, and although the text is usually \$200, many sellers are importing the "international" edition (read: India for \$30 new instead of \$200) which IS the edition that is reviewed here. If you have a problem with these kinds of imports you might want to pass, but from a content viewpoint it is identical to the \$200 edition, the binding is sound, and although the pages are thin and black and white, they are odor free and sturdy enough for handbook use. If you've gotten SI editions before, you know why I mention these parameters. Of course India uses SI units, but that is not as big an issue here since the math is universal. Highly recommended regardless of which format you choose. Much of the material in this text is becoming a "lost art" in the West today with so much manufacturing having moved to Japan, China and India. Process manufacturing is not covered as extensively as discrete and assembly operations, although items like light bulbs and other silicone and glass processes are now being looked at as discrete liquid flows, with hybrid techniques between process and discrete. There is not a lot of "10,000 foot" detail on strategies between put out, job shop, distributed vs. centralized, indoor vs. outdoor, etc. as in oil refineries vs. auto production, but that's because this is a DETAIL text on the math behind the trees more than the forest. With those caveats in place, you'll find this a treasured addition to your library beside the more general economic, process and

strategic/ facility texts.

Fundamentals of Modern Manufacturing came within the projected time. It was in perfect condition, as advertised. Many new concepts were illustrated.

Some chapters are in different order vs American version but content-wise it is the same

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