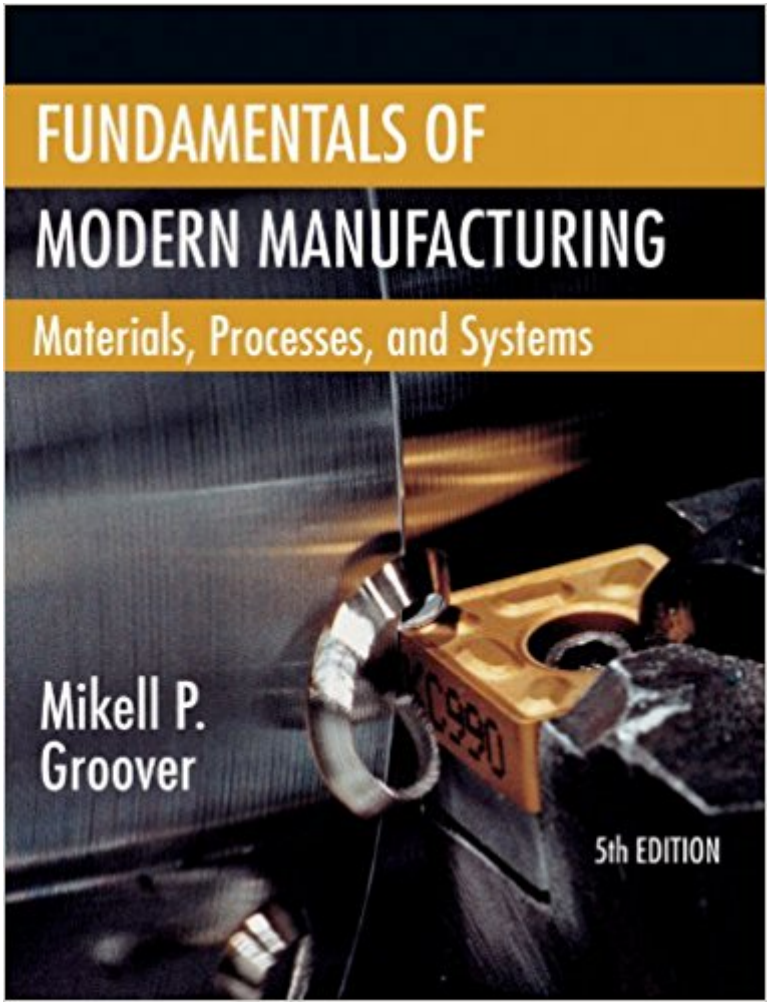
Fundamentals Of Modern Manufacturing: Materials, Processes, And Systems



Synopsis

Engineers rely on Groover because of the bookÃ¢â ¬â„¢s quantitative and engineering-oriented approach that provides more equations and numerical problem exercises. The fifth edition introduces more modern topics, including new materials, processes and systems.Ã Â End of chapter problems are also thoroughly revised to make the material more relevant. Several figures have been enhanced to significantly improve the quality of artwork. All of these changes will help engineers better understand the topic and how they apply it in the field.

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Customer Reviews

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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 sujects 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 silcone 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

Fundamentals of Modern Manufacturing: Materials, Processes, and Systems Fundamentals of Modern Manufacturing, Binder Ready Version: Materials, Processes, and Systems Modern Materials and Manufacturing Processes (3rd Edition) Manufacturing Technology: Materials, Processes, and Equipment DeGarmo's Materials and Processes in Manufacturing Manufacturing Processes: Materials, Productivity, and Lean Strategies Sustainable Materials, Processes and Production (The Manufacturing Guides) Manufacturing Processes for Engineering Materials (6th Edition) Manufacturing Processes for Engineering Materials (5th Edition) Manufacturing Processes for Engineering Materials (4th Edition) Manufacturing Processes for Engineering Materials (3rd Edition) Biomimetic Materials And Design: Biointerfacial Strategies, Tissue Engineering And Targeted Drug Delivery (Manufacturing Engineering & Materials Processing) Additive Manufacturing Technologies: 3D Printing, Rapid Prototyping, and Direct Digital Manufacturing Composite Materials: Materials, Manufacturing, Analysis, Design and Repair Supply Chain Management in Manufacturing + Inventory Control in Manufacturing: 2 Books in 1 ISO 22716:2007, Cosmetics - Good Manufacturing Practices (GMP) - Guidelines on Good Manufacturing Practices Manufacturing with Materials (Materials in Action) Fundamentals of Composites Manufacturing: Materials, Methods and Applications, Second Edition Fundamentals Of Information Systems Security (Information Systems Security & Assurance) - Standalone book (Jones & Bartlett Learning Information Systems Security & Assurance) Freezing Colloids: Observations, Principles, Control, and Use: Applications in Materials Science, Life Science, Earth Science, Food Science, and Engineering (Engineering Materials and Processes)