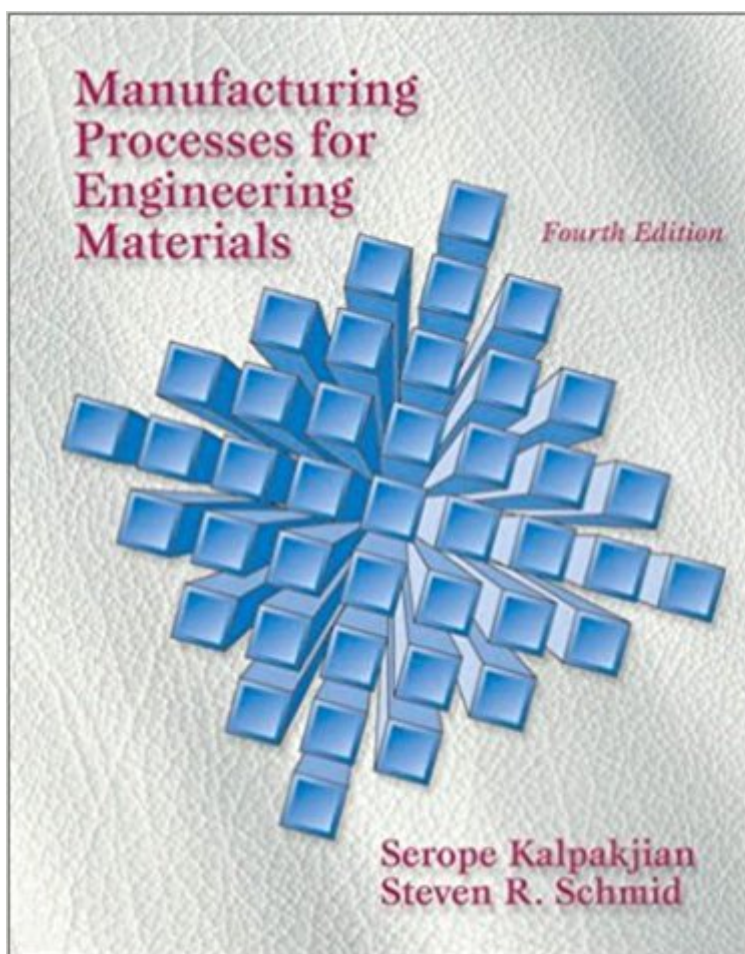


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# Manufacturing Processes For Engineering Materials (4th Edition)



## Synopsis

For undergraduate courses in Mechanical, Industrial, Metallurgical, and Materials Engineering Programs. For graduate courses in Manufacturing Science and Engineering. This comprehensive, up-to-date text has balanced coverage of the fundamentals of materials and processes, its analytical approaches, and its applications in manufacturing engineering. Students using this text will be able to properly assess the capabilities, limitations, and potential of manufacturing processes and their competitive aspects. Well-organized and interesting, this book will encourage, motivate, and challenge students to present economically viable solutions to a wide variety of questions and problems, including the increasingly important element of product design.

## Book Information

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## Customer Reviews

Manufacturing Processes for Engineering Materials, Fourth Edition is a comprehensive text, written mainly for students in mechanical, industrial, and metallurgical and materials engineering programs. The text, as well as the numerous examples and case studies in each chapter, clearly show that manufacturing engineering is a complex and interdisciplinary subject. The topics are organized and presented in such a manner that they motivate and challenge students to present technically and economically viable solutions to a wide variety of questions and problems, including product design. Since the publication of the third edition, there have been rapid and significant advances in various areas in manufacturing. The fourth edition of Manufacturing Processes for Engineering Materials, while continuing with balanced coverage of the relevant fundamentals, analytical approaches, and

applications, reflects these new advances.

Serope Kalpakjian taught and conducted research at the Illinois Institute of Technology for 38 years prior to his retirement in 2001 as professor emeritus of mechanical and materials engineering. After graduating from Robert College (high honors), Harvard University, and the Massachusetts Institute of Technology, he joined Cincinnati Milacron, where he was a research supervisor in advanced metal-forming processes. He is the author of numerous technical papers and several articles in handbooks and encyclopedias and has edited various conference proceedings. In addition, Professor Kalpakjian has served on the editorial boards of several journals and the Encyclopedia Americana and is the coauthor of Lubricants and Lubrication in Metalworking Operations. Both first editions of his textbooks, Manufacturing Processes for Engineering Materials and Manufacturing Engineering and Technology, have received the M. Eugene Merchant Manufacturing Textbook Award. He is a Life Fellow of the ASME, Fellow of the SME, Fellow and Life Member of ASM International, emeritus member of CIRP (International Institution for Production Engineering Research), and a founding member and past president of NAMRI/SME. Among the awards Professor Kalpakjian has received are the Forging Industry Educational and Research Foundation Best Paper Award (1966), an Excellence in Teaching Award from IIT (1970), the Centennial Medallion from the ASME (1980), the International Education Award from the SME (1989), a Person of the Millennium Award from IIT (1999), and the Albert Easton White Distinguished Teacher Award from ASM International (2000). SME named the Outstanding Young Manufacturing Engineer Award after Professor Kalpakjian for the year 2002. Steven R. Schmid is an associate professor with the Department of Aerospace and Mechanical Engineering, University of Notre Dame, where he teaches and performs research in the general areas of manufacturing, machine design, and tribology. As the director of the Manufacturing Tribology Laboratory at the university, he oversees industry- and government-funded research on a variety of manufacturing topics, including tribological issues in rolling, forging and sheet-metal forming, polymer processing, medical-device design and manufacture, and nanomechanics.

While this book is a fantastic overview of all things materials and their many, many, many different methods of processing, the text is beyond dry when it comes to actual readability. A few weeks could have been set aside in the writing process to make the text far less formulaic and repetitive than it is currently, but that effort was obviously not made. However, it's impossible to fault a textbook for being dry, and that's the only reason the single star was docked. The descriptions of the

manufacturing processes and their applications, on the other hand, were detailed and helpful, and the book is recommended in that regard.

The picture is of the English Edition. I received the international edition. False Advertising. There was also no mention of it being the international Edition in the Description. If I wanted the international Edition, I would have bought a cheaper one. I Spent more thinking I was getting what was advertised in the description and in the picture as this was what I needed for class. I paid more money for something I could have gotten for \$20 because I wanted something that would best help me in class.

Decent book with a lot of information.

The book did not go in as much detail as my professor did, but that really is not that big of a problem. I plan on keeping this book since it is relatively cheap (cost-wise) and has a ton of useful information in it. I would definitely recommend this book as a shelf reference book (not to carry around since it is extremely heavy). Great book....I highly recommend picking it up if you are a materials scientist/engineer or have any overlapping field of study that concerns processing at all (every physical product requires processing).

Being a junior mechanical engineering student, this text is what's used for the lecture. I use this textbook a lot and it is very helpful: all of the processes are well explained, why they should/should not be used in situations. Also this book makes a good effort to take the raw material and mix with facts beyond just when to use a process to get you actually interested in manufacturing. For example how investment casting (aka lost wax process) allowed people to create intricate statues. Every week a quiz was given and studying for an hour with the book and notes helped me ace it every time. \*\*This semester I had expected that manufacturing would be the driest class; in fact this is one of the classes that I most enjoyed. I'm sure it was partly due because of my professor but this book certainly didn't hurt.

Excellent buy, thanks!

A good first primer for the material at hand. Much of the information in this book is in regards to machining, casting, and related topics such as roughness. The rest of the topics will get a paragraph

or page. If you deep information on a specific process additional texts are required.

This book is very frustrating to learn from. The chapters are assembled with no rhyme or reason with completely different topics covered in the same chapter. If you are going to do the review questions, plan on getting an additional reference such as Machinery's Handbook as this text lacks the tabulated values required to do the assigned problems. There are several misprints throughout the book as well.

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