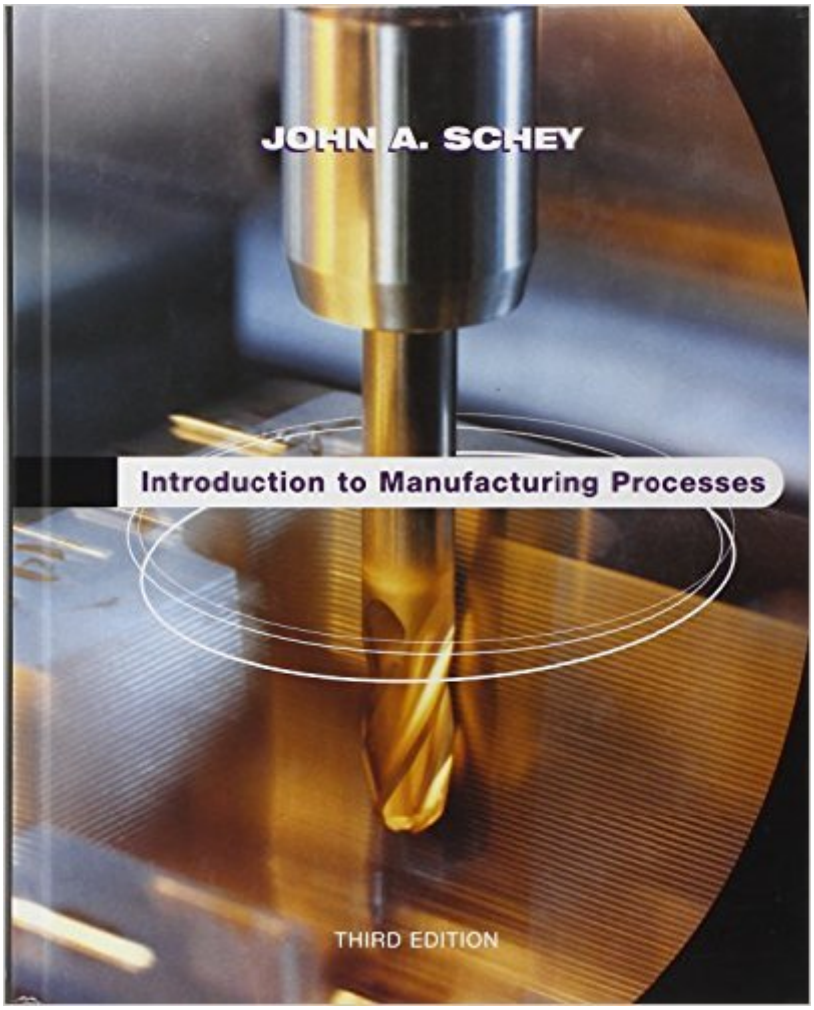
Introduction To Manufacturing Processes



Synopsis

This revision aims to address changes that have taken effect since the publication of the second edition. The most significant change has been in the attitude of industry to concurrent engineering. In 1987, mostly lip service was paid to it; today, it has become general practice in most competitive corporations. In the second edition , the author discussed this as the manufacturing system. In the third edition it becomes the focal point. Concurrent engineering involves the whole product realization process, including product concept, performance criteria, mechanical design and analysis, materials selection, process planning and modeling, production control, automation, assembly, management, and others. An introductory text cannot possibly cover all of these topics, hence the emphasis of the third edition remains on the physical principles and the application of these principles to processes. The major difference relative to the second edition will be the emphasis on interactions between process and design. Capabilities and limitations of processes will be highlighted to show what they mean in terms of design possibilities, and design modifications will be suggested for ease of manufacture. Impact on the environment and possibilities for recycling will be woven into the entire text.

Book Information

Series: McGraw-Hill Series in Mechanical Engineering and Materials S
Hardcover: 984 pages
Publisher: McGraw-Hill Education; 3 edition (July 27, 1999)
Language: English
ISBN-10: 0070311366
ISBN-13: 978-0070311367
Product Dimensions: 7.5 x 1.6 x 9.4 inches
Shipping Weight: 3.4 pounds (View shipping rates and policies)
Average Customer Review: 5.0 out of 5 starsÂ Â See all reviewsÂ (4 customer reviews)
Best Sellers Rank: #182,620 in Books (See Top 100 in Books) #80 inÂ Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Manufacturing #95 inÂ Books > Textbooks > Engineering > Industrial Engineering #158 inÂ Books > Engineering & Transportation > Engineering > Chemical

Customer Reviews

This book is an amazing review of material properties and just manufacturing in general. Each chapter starts of with a brief intro and then goes into a brief synopsis of each process. For example

the welding chapter went over the types of welding, and then went on for 65 pages on a description on each type of welding. It was an amazing way to cover the material and I love reading it. A must have for Mechanical Engineers.

This book might seem dense at first glance, however, it was one of the best textbooks I've read. The chapters are well organized and the content is very thorough without being too wordy.If you're required to buy this for a class, take the time to read it. This textbook helped my grade more than any of my other classes.

John Schey's manufacturing book is one of the top two in the field - the other being Serope Kalpakjian's. Schey writes a well balanced, clear, and insightful book.

cheap. new. awesome