



Fundamentals of Modern Manufacturing, with Manufacturing Processes Sampler DVD: Materials, Processes, and Systems

By Mikell P. Groover

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Reflecting the increasing importance of ceramics, polymers, composites, and silicon in manufacturing, Fundamentals of Modern Manufacturing Second Edition provides a comprehensive treatment of these other materials and their processing, without sacrificing its solid coverage of metals and metal processing. Topics include such modern processes as rapid prototyping, microfabrication, high speed machining and nanofabrication. Additional features include:

- Emphasis on how material properties relate to the process variables in a given process.
- Emphasis on manufacturing science and quantitative engineering analysis of manufacturing processes.
- More than 500 quantitative problems are included as end of chapter exercises.
- Multiple choice quizzes in all but one chapter (approximately 500 questions).
- Coverage of electronics manufacturing, one of the most commercially important areas in today's technology oriented economy.
- Historical notes are included to introduce manufacturing from the earliest materials and processes, like woodworking, to the most recent.

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Editorial Review

From the Back Cover

See manufacturing processes in action with a new DVD!

This updated edition is packaged with a new DVD based on the Society of Manufacturing Engineers' Fundamental Manufacturing Processes video series. The DVD contains 22 video clips (5 to 6 minutes each) that promote visualization of key manufacturing processes.

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About the Author

Mikell P. Groover is Professor of Industrial and Manufacturing Systems Engineering and Director of the George E. Kane Manufacturing Technology Laboratory at Lehigh University. His industrial experience includes several years as a manufacturing engineer with Eastman Kodak and extensive consulting, research, and project work. His technical articles and papers have been widely published in trade journals, and his six previous books on manufacturing are used throughout the world. The first edition of *Fundamentals of Modern Manufacturing* received the 1996 IIE Joint Publishers Award and the 1996 M. Eugene Merchant Manufacturing Textbook Award from the Society of Manufacturing Engineers.

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