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This week's selection is  
"Introduction to  
Manufacturing Processes" by  
Mikell Groover.

Manufacturing Processes. In  
this publication we spend  
many words discussing  
aspects of 3D printing, but  
in truth the technology is  
simply a method of  
manufacturing. In fact, it's  
one of many manufacturing  
methods and is often more  
powerful when combined with  
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Mikell P. Groover is Professor of Industrial and Manufacturing Systems Engineering at Lehigh University, where he also serves as Director of the Manufacturing Technology Laboratory. He holds the following degrees all from Lehigh: B.A. (1961) in Arts and Science, B.S. (1962) in Mechanical Engineering, M.S. (1966) and Ph.D. (1969) in Industrial Engineering.

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Mikell P. Groover  
Mikell P. Groover is  
Professor of Industrial and  
Manufacturing Systems  
Engineering at Lehigh  
University, where he also  
serves as Director of the  
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Laboratory. He holds the following degrees all from Lehigh: B.A. (1961) in Arts and Science, B.S. (1962) in Mechanical Engineering, M.S. (1966) and Ph.D. (1969) in Industrial Engineering.

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positive student outcomes. Focusing mainly on processes, tailoring down the typical coverage of both materials and systems. The emphasis on manufacturing science and mathematical modeling of processes is an important attribute of the new book. Real world/design case studies are also integrated with fundamentals - process videos provide students with a chance to experience being 'on the floor' in a manufacturing facility, followed by case studies that provide individual students or groups of students to dig into larger/more design-oriented problems.

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This book takes a modern, all-inclusive look at manufacturing processes, but also provides a substantial coverage of engineering materials and production systems. Materials, processes, and systems are the basic building blocks of manufacturing and the three broad subject areas of this book.

- Material Properties, Product Attributes.
- Engineering Materials.
- Solidification Processes.
- Particulate Processing For Metals And Ceramics.
- Metal Forming And Sheet Metalworking.
- Material Removal Processes.
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Groover's Principles of Modern Manufacturing 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.

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