

FUNDAMENTALS OF MODERN MANUFACTURING



Materials, Processes, and Systems

Mikell P.
Groover

5th EDITION

Fundamentals Of Modern Manufacturing Materials Processes And Systems

Mikell P. Groover



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Mikell P. Groover,2019-06-05 Fundamentals of Modern Manufacturing is a balanced and qualitative examination of the materials methods and procedures of both traditional and recently developed manufacturing principles and practices This comprehensive textbook explores a broad range of essential points of learning from long established manufacturing processes and materials to contemporary electronics manufacturing technologies An emphasis on the use of mathematical models and equations in manufacturing science presents readers with quantitative coverage of key topics while plentiful tables graphs illustrations and practice problems strengthen student comprehension and retention Now in its seventh edition this leading textbook provides junior or senior level engineering students in manufacturing courses with an inclusive and up to date treatment of the basic building blocks of modern manufacturing science Coverage of core subject areas helps students understand the physical and mechanical properties of numerous manufacturing materials the fundamentals of common manufacturing processes the economic and quality control issues surrounding various processes and recently developed and emerging manufacturing technologies Thorough investigation of topics such as metal casting and welding material shaping processes machining and cutting technology and manufacturing systems and support helps students gain solid foundational knowledge of modern manufacturing Fundamentals of Modern Manufacturing Groover,2013-02-07

Principles of Modern Manufacturing Mikell P. Groover,2013 Fundamentals 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 Given its coverage of engineering materials it may also be suitable for materials science and engineering courses that emphasize materials processing Finally it may be appropriate for technology programs related to the preceding engineering disciplines Most of the book s content is concerned with manufacturing processes about 65% of the text but it also provides significant coverage of engineering materials and production systems Materials processes and systems are the basic building blocks of modern manufacturing and the three broad subject areas covered in the book

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