Principles of Modern Manufacturing. 5th Edition SI Version

Description: 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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1. INTRODUCTION AND OVERVIEW OF MANUFACTURING
2. THE NATURE OF MATERIALS
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4. PHYSICAL PROPERTIES OF MATERIALS
5. ENGINEERING MATERIALS
6. DIMENSIONS, SURFACES, AND THEIR MEASUREMENT
7. FUNDAMENTALS OF METAL CASTING
8. METAL CASTING PROCESSES
9. GLASSWORKING
10. SHAPING PROCESSES FOR PLASTICS
11. PROCESSING OF POLYMER MATRIX COMPOSITES AND RUBBER
12. POWDER METALLURGY
13. PROCESSING OF CERAMICS AND CERMETS
14. FUNDAMENTALS OF METAL FORMING
15. BULK DEFORMATION PROCESSES IN METALWORKING
16. SHEET METALWORKING
17. THEORY OF METAL MACHINING
18. MACHINING OPERATIONS AND MACHINE TOOLS
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20. ECONOMIC AND PRODUCT DESIGN CONSIDERATIONS IN MACHINING
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22. NONTRADITIONAL MACHINING AND THERMAL CUTTING PROCESSES
23. HEAT TREATMENT OF METALS
24. SURFACE PROCESSING OPERATIONS
25. FUNDAMENTALS OF WELDING
26. WELDING PROCESSES
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29. RAPID PROTOTYPING AND ADDITIVE MANUFACTURING
30. PROCESSING OF INTEGRATED CIRCUITS
31. ELECTRONICS ASSEMBLY AND PACKAGING
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33. NANOFABRICATION TECHNOLOGIES
34. AUTOMATION TECHNOLOGIES FOR MANUFACTURING SYSTEMS
35. INTEGRATED MANUFACTURING SYSTEMS
36. PROCESS PLANNING AND PRODUCTION CONTROL
37. QUALITY CONTROL AND INSPECTION

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