



# Fundamentals of Modern Manufacturing: Materials, Processes, and Systems Update

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Summary: 1. Introduction. PART I: MATERIAL PROPERTIES AND PRODUCT ATTRIBUTES. 2. The Nature of Materials. 3.

Mechanical Properties of Materials. 4. Physical Properties of Materials. 5. Dimensions, Tolerances, and Surfaces. PART II: ENGINEERING MATERIALS. 6. Metals. 7. Ceramics. 8. Polymers. 9. Composite Materials. PART III: SOLIDIFICATION PROCESSES. 10. Fundamentals of Metal Casting. 11. Metal Casting Processes. 12. Glassworking. 13. Shaping Processes for Plastics. 14. Rubber Processing Technology. 15. Shaping Processes for Polymer Matrix Composites. PART IV: PARTICULATE PROCESSING OF METALS AND CERAMICS. 16. Powder Metallurgy. 17. Processing of Ceramics and Cermets. PART V: METAL FORMING AND SHEET METALWORKING. 18. Fundamentals of Metal Forming. 19. Bulk Deformation Processes in Metal Working. 20. Sheet Metal Working. PART VI: MATERIAL REMOVAL PROCESSES. 21. Theory of Metal Machining. 22. Machining Operations and Machine Tools. 23. Cutting Tool Technology. 24. Economic and Product Design Considerations in Machining. 25. Grinding and Other Abrasive Processes. 26. Nontraditional Machining and Thermal Cutting Processes. PART VII: PROPERTY ENHANCING AND SURFACE PROCESSING OPERATIONS. 27. Heat Treatment of Metals. 28. Cleaning and Surface Treatments. 29. Coating and Deposition Processes. PART VIII: JOINING...



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