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## Elements of Manufacturing Processes

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By B.S. Nagendra Parashar, R.K. Mittal

PHI Learning, 2009. Softcover. Book Condition: New. First edition. This comprehensive introduction to basic manufacturing processes is ideal for both degree and diploma courses in engineering. With several pedagogical features, the text makes the topics understandable and appealing for students. The book first introduces the concepts of engineering materials and their properties, measurement and quality in manufacturing and allied activities before dwelling upon the details of different manufacturing processes such as machining, casting, metal forming, powder metallurgy and joining. To keep pace with the latest advancements in technology, use of non-conventional resources, applications of computers, and use of robots in manufacturing are also discussed in considerable detail. The text also provides a thorough treatment of topics on economy and management of production. Contents Preface. Acknowledgments. Manufacturing Concepts. Engineering Materials. Measurements and Quality in Manufacturing. Theory of Metal Cutting. Turning Operations. Drilling and Allied Operations. Shaping, Planing and Slotting Operations. Milling Operations. Finishing Processes. Phase Change Processes for Material Property Manipulation. Casting Processes. Metal Forming Processes. Sheet-metal Working. Powder Metallurgy. Mechanical Joining Processes. Processing of Plastics. Non-conventional Resources in Manufacturing. Computer Controlled Manufacturing Systems. Economics of Manufacturing. Production Management. Power Transmission in Machine Tools. Appendices. Objective Type Questions. Bibliography. Index.

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