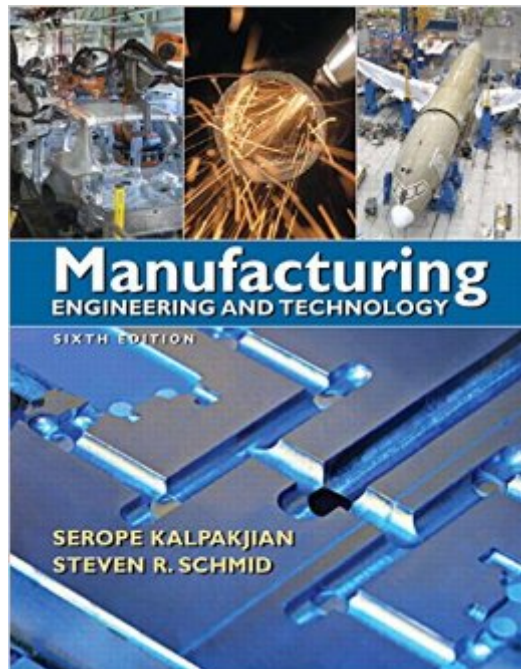


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# Manufacturing Engineering & Technology (6th Edition)



## Synopsis

Manufacturing Engineering & Technology, 6/e, is ideal for courses in manufacturing processes at two- or four-year schools. This textbook is also a valuable reference text for manufacturing professionals. An up-to-date text that provides a solid background in manufacturing processes. Manufacturing Engineering & Technology, 6/e, presents a mostly qualitative description of the science, technology, and practice of manufacturing. This includes detailed descriptions of manufacturing processes and the manufacturing enterprise that will help introduce students to important concepts. With a total of 120 examples and case studies, up-to-date and comprehensive coverage of all topics, and superior two-color graphics, this text provides a solid background for manufacturing students and serves as a valuable reference text for professionals. The Sixth Edition has been completely updated, and addresses issues essential to modern manufacturing, ranging from traditional topics such as casting, forming, machining, and joining, to advanced topics such as the fabrication of microelectronic devices and microelectromechanical systems (MEMS), and nanomaterials and nanomanufacturing. With each purchase of a new copy of the Sixth Edition, students receive access to Video Solutions and myeBook, Pearson's new visual tools for teaching and reinforcing key concepts and techniques.

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The SI Version of Kalpakjian Manufacturing, Engineering and Technology, 5e discusses the

science, engineering, and technology of manufacturing processes and systems that continue to advance rapidly on a global scale and with major impact on the economies of all nations. In this edition, the goal has been to provide a comprehensive and state-of-the-art manufacturing engineering and technology textbook, with the additional aims of motivating and challenging students to study this important discipline. This edition follows the same introductory nature, format, and organization as the fourth edition, and now includes increased emphasis on (a) the influence of materials and processing parameters in understanding individual processes and operations; (b) design considerations, product quality, and manufacturing costs; and (c) the global competitive context of each manufacturing process and operation, highlighted with numerous illustrative examples and case studies. --This text refers to the Paperback edition.

Professor Serope Kalpakjian has been teaching at the Illinois Institute of Technology since 1963. After graduating from Robert College (with High Honors), Harvard University, and the Massachusetts Institute of Technology, he joined Cincinnati Milacron, Inc., where he was a research supervisor in charge of advanced metal-forming processes. He has published numerous papers and is the author of several articles in encyclopedias and handbooks; he has also edited various volumes and serves on the editorial boards of several journals and the Encyclopedia Americana. He is the author of three additional manufacturing books, two of which received the M. Eugene Merchant Manufacturing Textbook Award. He is a Life Fellow of the American Society of Mechanical Engineers, Fellow and Life Member of ASM International, and Fell of the Society of Manufacturing Engineers, and is a full member (Emeritus) of the International Institution for Production Engineering Research (CIRP). He is a founding member and a past president of the North American manufacturing Research Institution. Professor Kalpakjian has received several awards: Citation by the Forging Industry Educational and Research Foundation for best paper (1966); Citation by the Society of Carbide and Tool Engineers (1977); The "Excellence in Teaching Award" from the Illinois Institute of Technology (1970); the "Centennial Medallion" by the American Society of Mechanical Engineers (1980); the International "Education Award" by the Society of Manufacturing Engineers (1989); and the Albert Easton White Distinguished Teacher Award by the American Society for Metals International (2000). Dr. Steven R. Schmid is an Associate Professor in the Department of Aerospace and Mechanical Engineering at the University of Notre Dame, where he teaches and conducts research in manufacturing, machine design, and tribology. As the Director of the Manufacturing Tribology Laboratory at the university, he oversees industry and governmentally funded research on a wide variety of manufacturing topics, including tribological issues in rolling,

forging and sheet metal forming, polymer processing, medical device design and manufacture, and nanomechanics.

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