



Manufacturing Processes for Engineering Materials (5th Edition)

By Serope Kalpakjian, Steven Schmid

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Well organized and clearly written, this book uses a sound analytical approach to explain manufacturing processes; it enables the reader to understand and appreciate the complex interrelationships between the diverse topics in this field. The book carefully presents the fundamentals of materials processing along with their relevant applications, so that the reader can clearly assess the capabilities, limitations, and potentials of manufacturing processes and their competitive aspects. Using real-world examples and well-wrought graphics, this book covers a multitude of topics, including the mechanical behavior of materials; the structure and manufacturing properties of metals; surfaces, dimensional characteristics, inspection, and quality assurance; metal-casting processes including heat treatment; bulk deformation processes; sheet-metal forming processes; material removal processes; polymers, reinforced plastics, rapid prototyping and rapid tooling; metal powders, ceramics, glasses, composites, and superconductors; joining and fastening processes; microelectronic and micromechanical devices; automation; computer-integrated systems; and product design. For manufacturing engineers, metallurgists, industrial designers, material handlers, product designers, and quality assurance managers.

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Editorial Review

From the Back Cover

Manufacturing Processes for Engineering Materials

Fifth Edition

Serope Kalpakjian and Steven R. Schmid

This new edition of **Manufacturing Processes for Engineering Materials** continues its tradition of balanced and comprehensive coverage of relevant engineering fundamentals, mathematical analysis, and traditional as well as advanced applications of manufacturing processes and operations. Updated and thoroughly edited for improved readability and clarity, this book is written mainly for students in mechanical, industrial, and metallurgical and materials engineering programs. The text continually emphasizes the important interactions among a wide variety of technical disciplines and the economics of manufacturing operations in an increasingly competitive global marketplace.

New and expanded topics in this edition include:

- § *Communications networks*
- § *Design considerations in manufacturing*
- § *Fabrication of micromechanical and microelectromechanical devices*
- § *Holonic manufacturing systems*
- § *Incremental forming*
- § *Life-cycle engineering and sustainable manufacturing*
- § *Mechanics of polymer processing*
- § *Micromachining*
- § *Nanomanufacturing and nanomaterials*
- § *Rapid prototyping and rapid tooling*
- § *Taguchi methods*
- § *Web sites for information relevant to manufacturing*

Numerous figures have been added or improved for enhanced graphic impact, the number of questions and problems has been increased by about twenty percent and answers to selected problems are provided, and the Bibliography at the end of each chapter has been thoroughly updated. The text now has a larger number of cross-references throughout to give students a perspective of the often complex interrelationships among materials, product design, and manufacturing processes and operations, and the numerous technical and economic factors involved in their selection.

Users Review

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Allan Nguyen:

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