



# Fundamentals of Machining Processes: Conventional and Nonconventional Processes, Second Edition

*By Hassan Abdel-Gawad El-Hofy*

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## **Fundamentals of Machining Processes: Conventional and Nonconventional Processes, Second Edition** By Hassan Abdel-Gawad El-Hofy

Completely revised and updated, this second edition of **Fundamentals of Machining Processes: Conventional and Nonconventional Processes** covers the fundamentals machining by cutting, abrasion, erosion, and combined processes. The new edition has been expanded with two additional chapters covering the concept of machinability and the roadmap for selecting machining processes that meet required design specification.

See What's New in the Second Edition:

Written by an expert with 37 years of experience in research and teaching machining and related topics, this covers machining processes that range from basic conventional metal cutting, abrasive machining to the most advanced nonconventional and micromachining processes. The author presents the principles and theories of material removal and applications for conventional and nonconventional machining processes, discusses the role of machining variables in the technological characteristics of each process, and provides treatment of current technologies in high speed machining and micromachining. The treatment of the different subjects has been developed from basic principles and does not require the knowledge of advanced mathematics as a prerequisite. A fundamental textbook for undergraduate students, this book contains machining data, solved examples, and review questions which are useful for students and manufacturing engineers.

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### Editorial Review

"This book maintains a proper balance between engineering and technology of the machining processes. The presence of the solved examples, problems and review questions makes it adaptable as a text book for UG students and a reference book for shop floor engineers."

—Prof. V. K. Jain, Mechanical Engineering Department, Indian Institute of Technology Kanpur, India

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