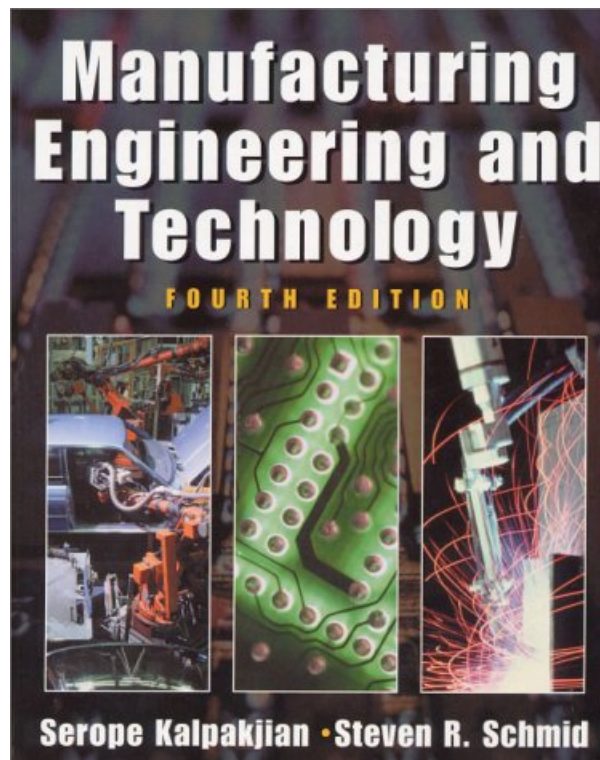


MANUFACTURING ENGINEERING AND TECHNOLOGY (4TH EDITION) BY SEROPE KALPAKJIAN, STEVEN R. SCHMID



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By Prof David T Wright

This is one of 2 books that captures the essence of a manufacturing management (or industrial engineering) engineering undergraduate degree- the other being an operations management text from Ray Wild, Nigel Slack, or Laurie Mullins. To help get an idea of what being a manufacturing engineer involves, prospective students should envision a dose of intense team & individual industry-based change projects, and striving globally competitive companies to add "seasoning" to these books. The broad 'technology' contents are

useful for industry veterans, consultants, and undergraduate students alike, as well as being a good starting point for researchers.

Over 1000 pages of richly detailed and illustrated yet concise contents span:

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- * forming and shaping processes and equipment- rolling, forging, extrusion and drawing, sheet-metal forming, powder metallurgy, forming & shaping plastic & composites, forming & shaping ceramics & glass.

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- * joining processes and equipment- oxyfuel & arc & resistance welding, solid-state welding, metallurgy, brazing/soldering & mechanical joining processes.

- * surface technology- characteristics & measurement, tribology, surface treatment, fabrication of microelectronics,

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- * manufacturing in a competitive environment- automation, integrated systems, competition and economics.

The strengths include the vast amount of detail, illustrations, references and exercises to embed learning; broadness yet correctness of content; and many examples of industrial application and usefulness for industry. An updated version, with further additions on latest technologies, process control, and systems analysis/simulation & change management, would address the only weakness of the text (the section on competitive environment manufacturing). Thoroughly recommended as a reference and how-to book in manufacturing (suspect latest version even better!)

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