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Fundamentals of Machining and Machine Tools

By R K Singal, Mridul Singal, Rishi Singal

I.K. International Publishing House Pvt. Ltd., 2008. Paperback. Book Condition: New. 16cm x 24cm. Fundamentals of Machining and Machine Tools deals with analytical modeling of machining processes, modern cutting tools materials and how these affect the economics of machining. The book emphasizes underlying concepts, analytical methods and economic considerations. The book thoroughly illustrates the causes of various phenomena and their effects on machining practice. It includes descriptions of modern analytical methods outlining the merits and the demerits of various modeling approaches. Spread in 22 chapters, the book is broadly divided in four sections: 1. Machining Processes, 2. Cutting Tools, 3. Machine Tools, 4. Automation. This book presents a detailed coverage of machine tool applications, vibrations, automation and computer aided manufacturing. Data on cutting parameters for machining operations and main characteristics of machine tools has been separately provided in Annexures. In addition to exhaustive theory, a number of solved numerical examples have been included in various chapters. Question banks on sample theory questions have been given at the end of each chapter. The book is a must for anyone involved in metal cutting, machining, machine tool technology, machining applications, and manufacturing processes.



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