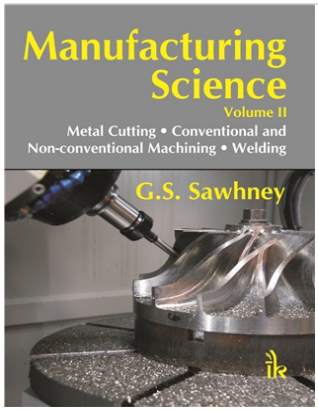
Book Information Sheet



Manufacturing Science, 1/e

G.S. Sawhney

2015 | 304 pp | Paperback | ISBN: 9789382332725 | Price: 345.00

About the Book

Written for the second year engineering students of undergraduate level course, this well set out textbook on Manufacturing Science explains the fundamentals of fabrication processes such as foundry, forming, welding and related conventional and non-conventional processes. It is written in question-answer format, making it precise and easy to understand. The descriptions are also supported with simple illustrations and solved numerical examples. The book has extensive coverage of theory, derivation of formulae and solved questions from past examinations.

Salient Features

- Explains the fundamentals of metal cutting, machine tools, metal joining, non-conventional machining, and non-conventional welding processes.
- Profusely illustrated with diagrams.
- Covers theory, derivation of formulae, and solved questions from past examinations.
- Supported with enough illustrations for better understanding of the text.

Table of Contents

1. Metal cutting
2. Lathe and automation
3. Shaper, slotter & planner
4. Milling
5. Drilling, boring and reaming
6. Grinding
7. Superfinishing
8. Welding & non-conventional welding
9. Non-conventional machining
10. Limits, fits and tolerance

About the Author

G.S. Sawhney :- has served as Professor and Head, Department of Mechanical Engineering, GNIT Greater Noida. Earlier he was at Lord Krishna College of Engineering, Ghaziabad in the same capacity. Prior to joining teaching, he had served for 28 years in the Corps of Engineers and for 10 years in industry. His other books published by I.K. International Pvt. Ltd. are:

Biomedical Electronics and Instrumentation
Fluid Machinery Made Easy
Fundamentals of Computer Aided Manufacturing
Fundamentals of Biomedical Engineering Made Easy
Heat and Mass Transfer
Manufacturing Science (Volume-I, II)
Materials Science and Engineering
Mechanical Experiments and Workshop Practice
Project Management Made Easy