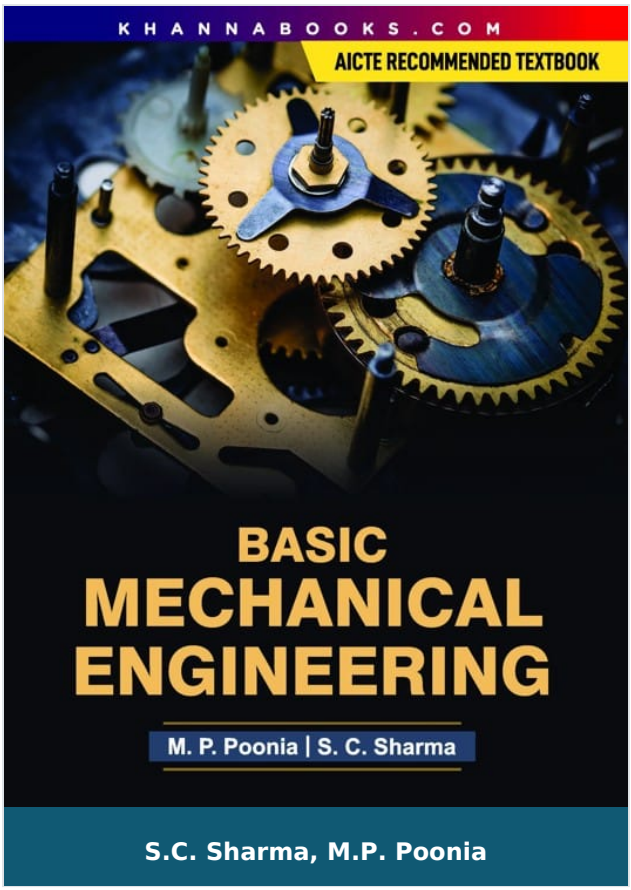

Basic Mechanical Engineering

Author :	S.C. Sharma, M.P. Poonia
ISBN 13 :	978-93-86173-33-1
ISBN 10 :	9386173336
E-ISBN 13 :	978-93-86173-33-1
Edition :	First
Pages :	792
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 648.00
Categories :	Mechanical Engineering, UNIVERSITY RECOMMENDED, Mechanical Engineering, Book Store
Condition Type :	New
Country Origin :	India

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Product Description

This book 'Basic Mechanical Engineering' has been written to provide knowledge and insight into various aspects of Mechanical Engineering. This book is intended as text book to be used by the students in the technical institutions i.e. Engineering Colleges and Polytechnics. The book covers Syllabi of various Universities on 'Basic Mechanical Engineering', 'Elements of Mechanical Engineering', 'Mechanical Engineering', 'Introduction to Mechanical Engineering' and 'Fundamentals of Mechanical Engineering' for the students of all the disciplines of Engineering.

Adequate attention has been paid to emphasize on basic principles involved in the subject matter. The explanation in the text has been supported with line diagrams, along with numerous solved problems.

The readers will find the book highly useful as a comprehensive text covering basic principles in simple language and easy to grasp formatting.

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- Fuel and Combustion of Fuels
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- Thermal Power Plants 2-Steam Engines, Turbines And Condenser
- Air Compressors
- Internal Combustion Engines (I.C Engines)
- Fuel System in I.C Engines
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- Hydraulic Turbines
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Author

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S.C. Sharma after graduation in 1966 joined as lecturer in Mechanical Engineering. He had been associated for more than 4 decades in various fields including learning and management of projects in India and abroad in different capacities. While working Hydro power projects for more than 15 years he has actively associated with various environmental and rehabilitation & resettlement issues and successfully resolved various complicated issues. He has also worked as consultant for matters related to safety, environment and R & R. He has written about a dozen books on subjects related to engineering and management including management of projects.

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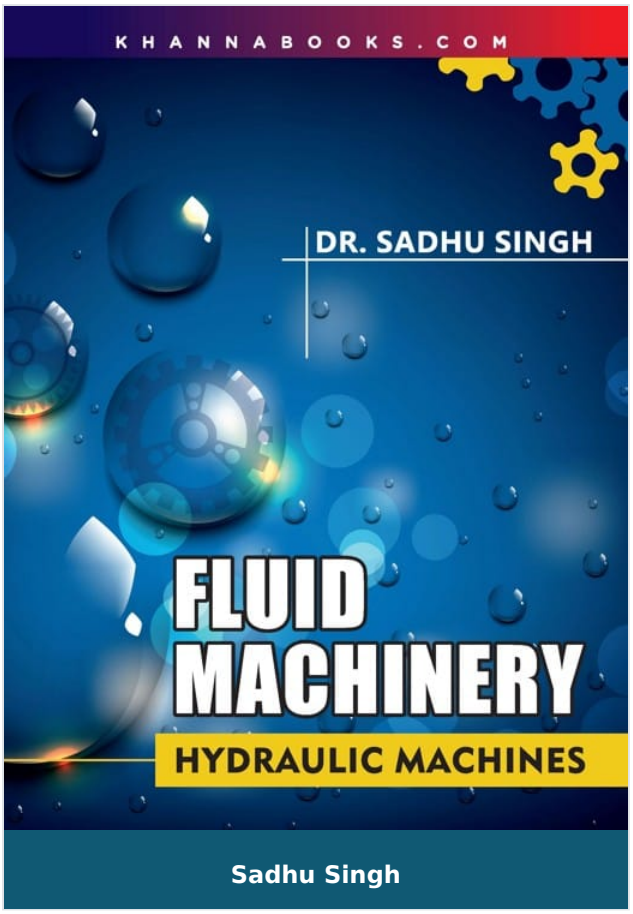

Fluid Machinery (Hydraulic Machines)

Author :	Sadhu Singh
ISBN 13 :	978-93-82609-28-5
ISBN 10 :	9382609288
E-ISBN 13 :	978-93-82609-28-5
Edition :	1
Pages :	480
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 475.00
Categories :	Mechanical Engineering, Mechanical Engineering, Book Store
Condition Type :	New
Country Origin :	India

Khanna Publishing House
4C/4344, Ansari Road, Daryaganj, New Delhi-110002
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- Fluid Devices and Systems
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- Conventional Questions From IES
- Multi-Choice Questions From IES
- Subject Index

Author

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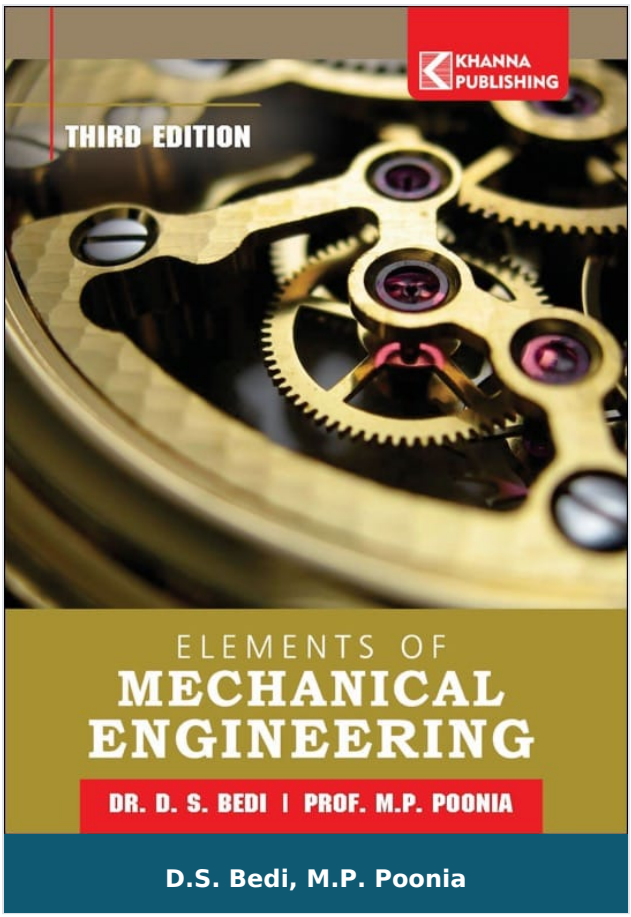

Elements of Mechanical Engineering

Author :	D.S. Bedi, M.P. Poonia
ISBN 13 :	978-93-86173-06-5
ISBN 10 :	9386173069
E-ISBN 13 :	978-93-86173-06-5
Edition :	Third
Pages :	748
Type of book :	Physical
Year :	2019
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 450.00
Categories :	Mechanical Engineering, UNIVERSITY RECOMMENDED, Mechanical Engineering, Book Store
Condition Type :	New
Country Origin :	India

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The subject 'Elements of Mechanical Engineering' embraces 3 different fields of Mechanical Engineering, namely Thermodynamics, Strength of Materials and Theory of Machines.

The book is written in simple and easy to understand language. The authors have ingeniously brought in situations encountered by common man in his day-to-day life, so as to generate interest in the reader for the subject which otherwise leaves him high and dry.

In addition to this, every topic is supplemented with large no. of solved examples (more than 300 examples) which deals with every possible situation. At the end of each chapter, review questions have been added so that the students are made conversant with the type of compulsory questions they have to face in university exam. These are also followed by large no. of model problems.

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- Second Law of Thermodynamics
- Entropy
- Gas Power Cycles
- Internal Combustion Engines
- Mechanisms and Machines
- Lifting Machines
- Concept of Mechanical Behavior of Engineering Materials
- Relation Between Elastic Constants
- Engineering Materials
- Centroid, Centre of Gravity, Second Movement of Area and Mass Movement of Inertia
- Index

Author

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Dr. D.S. Bedi is one of the distinguished writers in India. He possesses a very excellent academic background. He had held various high positions viz. formerly Professor Emeritus at Department of Mechanical Engineering, Institute of Engineering and Technology (Punjab); Professor & Head, Dept. of Mechanical Engineering,Thapar Institute of Engineering & Technology (Punjab); Visiting Professor at Wayne State University, Detroit, MI (USA); Principal, Baba Banda Singh Bahadur Engineering College, (Punjab); Advisor-

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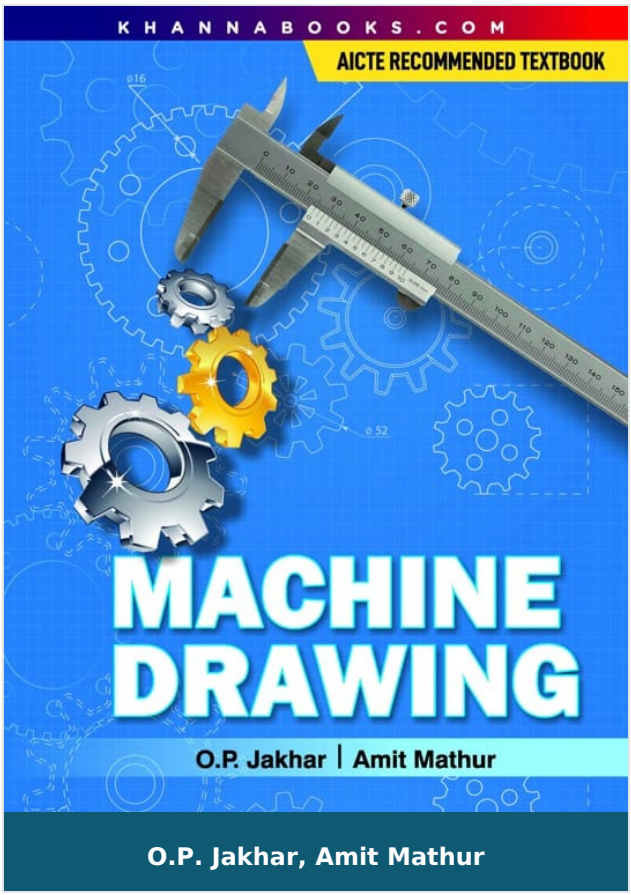

Machine Drawing

Author :	O.P. Jakhar, Amit Mathur
ISBN 13 :	978-93-86173-28-7
ISBN 10 :	938617328X
E-ISBN 13 :	978-93-86173-28-7
Edition :	First
Pages :	188
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 525.00
Categories :	Mechanical Engineering, UNIVERSITY RECOMMENDED, Mechanical Engineering, Book Store
Condition Type :	New
Country Origin :	India

Product Description

This book is Designed for the students of Engineering and Technology as well as specially for Mechanical Engineering Degree and Diploma students. The teaching of this course faces difficulty in explaining the various concept of machine drawing viz., orthographical projection, sectioning, complicated mechanical assembly drawing etc. Sometimes explanation requires some three dimensional and complicated drawing to be drawn on the black board which is quite impossible due to the time constraint of class.

This book is an outcome of the strong need felt by students offering the course and the teaching need felt by us. The teacher can explain the related concepts, drawing methods and uses of various parts being drawn etc. in each practical class without bothering the black board.

The subject matter has been compressed from the view point of Mechanical Engineering students.

The book also contains Basic Drawing Softwares which describes about the basics of Auto-CAD, CATIA, PROE, ANSYS etc. which is useful for today's need of Engineering & Technology.

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- Rivets and Riveted Joints
- Screw Threads and Fasteners
- Bearings & Shaft Coupling
- Assembly Drawing
- Power Transmission Drives
- Basics Drawing Softwares

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