



Elements of Mechanical Engineering

| | |
|-------------------------|-------------------------------------------------------------------|
| Author : | D.S. Bedi |
| ISBN 13 : | 978-93-86173-06-5 |
| ISBN 10 : | 93-86173-06-9 |
| E-ISBN 13 : | 978-93-86173-06-5 |
| Edition : | Third |
| Pages : | 748 |
| Type of book : | Paperback |
| Weight (g) : | 1100.00 |
| Year : | 2019 |
| Language : | English |
| Publisher : | Khanna Publishing House |
| Price : | Rs 360.00 |
| Categories : | All book , Mechanical Engineering |
| Condition Type : | New |
| Country Origin : | India |

Product Description

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.



Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: + +91-99109 09320

Table of Contents

Chapter 1: Basic Concepts of Thermodynamics Chapter 2: Properties of Pure Substances Chapter 3: First Law of Thermodynamic-Closed Systems Chapter 4: First Law of Thermodynamics Applied to Flow Processes Chapter 5: Second Law of Thermodynamics Chapter 6: Entropy Chapter 7: Gas Power Cycles Chapter 8: Internal Combustion Engines Chapter 9: Mechanisms and Machines Chapter 10: Lifting Machines Chapter 11: Concept of Mechanical Behavior of Engineering Materials Chapter 12: Relation Between Elastic Constants Chapter 13: Engineering Materials Chapter 14: Centroid, Centre of Gravity, Second Movement of Area and Mass Movement of Inertia

Index

Author

D.S. Bedi 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-cum-Consultant at G.G.S. College of Modern Technology (Punjab); Director, Punjab College of Engineering; Technology, Punjab. **M.P.**

Poonia Dr. M.P. Poonia is presently serving as Vice Chairman, All India Council for Technical Education (AICTE). Prior to this, he remained as Director, National Institute of Technical Teachers' Training and Research (NITTTR), Chandigarh. Dr. Poonia is the recipient of Bharat Mata Award conferred by Indian Institute of Oriental Heritage (an International Institute of Oriental Studies and Research, Kolkata). Dr. M.P. Poonia is specialized in the field of Mechanical Engineering. He possesses a vast experience of 30 years. He has published 80 research papers in National and International Journals and published 8 books with M/s. Khanna Book Publishing Company.

