



Total Quality Management and Reliability

Author : M.P. Poonia

ISBN 13 : 978-93-91505-22-6

ISBN 10 : 93-91505-22-8

E-ISBN 13 : 978-93-91505-22-6

Edition : 2

Pages : 456

Type of book : Paperback

Weight (g) : 600

Year : 2025

Language : English

Publisher : Khanna Publishing House

Price : Rs 380.00

Categories : [All book, Computer Science Engineering, Computer Science Engineering, UNIVERSITY RECOMMENDED](#)

SKU : 1725558540

Condition Type : New

Country Origin : India

Product Description

Total Quality Management is an integrated approach in satisfying customer needs in totally on a continuous basis, through involvement of each and every employee in the organization, making continuous improvement on one side and an appropriate cost-effective technology on the other side. It is management philosophy for professional excellence that too through customer orientation.

With the rapid advancement in technology and awareness, the users (Customers) have become highly quality conscious and demands quality, reliability and safety in product and service. In view of this, industries need to upgrade their quality continuously.

Product and service quality requires managerial, technological and statistical concepts which are the major functions of an organization. The concepts like strategic management, competitive bench marking, self-managing teams, getting it right first time, zero defects, employee empowerment are important as they move towards Total Quality Management (TQM) in simple and easy to understand language. The book is divided in to parts, part-I cover the principles and practices of TQM, while part-II covers the tools and technology of TQM.

The book covers the syllabi of various universities and therefore, should serve the needs of students of business administration and those of engineering, technology, and related disciplines. The professionals too will find this book to be a valuable reference in the field.

INSIDE THE BOOK

PART-1: PRINCIPLES AND PRACTICES

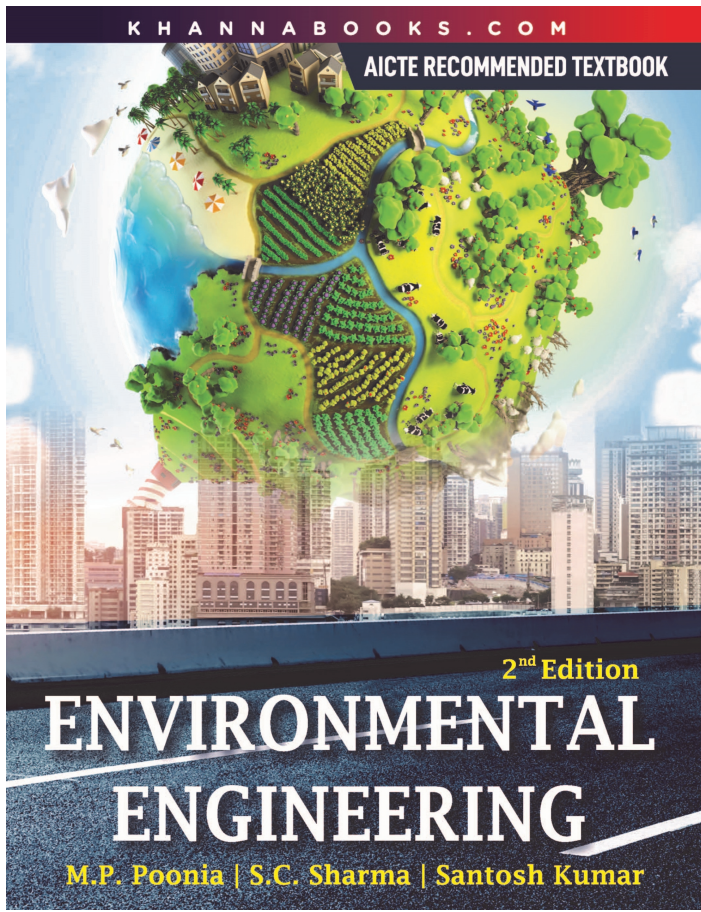
- Quality Concepts
- Total Quality management Concepts (TQM Concept)

TABLE OF CONTENTS

PART-1: PRINCIPLES AND PRACTICES

- Quality Concepts
- Total Quality management Concepts (TQM Concept)
- Quality Planning
- Organizing (Leadership) for Quality
- Continuous Process Improvement
- Customer Satisfaction
- Supplier Partnership
- Performance Measures
- Quality Gurus (Pioneers) of Total Quality Philosophy





Environmental Engineering

Author : M.P. Poonia

ISBN 13 : 978-93-90779-07-9

ISBN 10 : 93-90779-07-3

E-ISBN 13 : 978-93-90779-07-9

Edition : Second

Pages : 500

Type of book : Paperback

Year : 2023

Language : English

Publisher : Khanna Publishing House

Price : Rs 399.00

Categories : [All book](#), [Environmental Engineering](#), [Environmental Engineering](#), [New Arrivals](#)

Condition Type : New

Country Origin : India

Product Description

Environmental Engineering

Table of Contents

Environmental Engineering



Khanna Publishing House

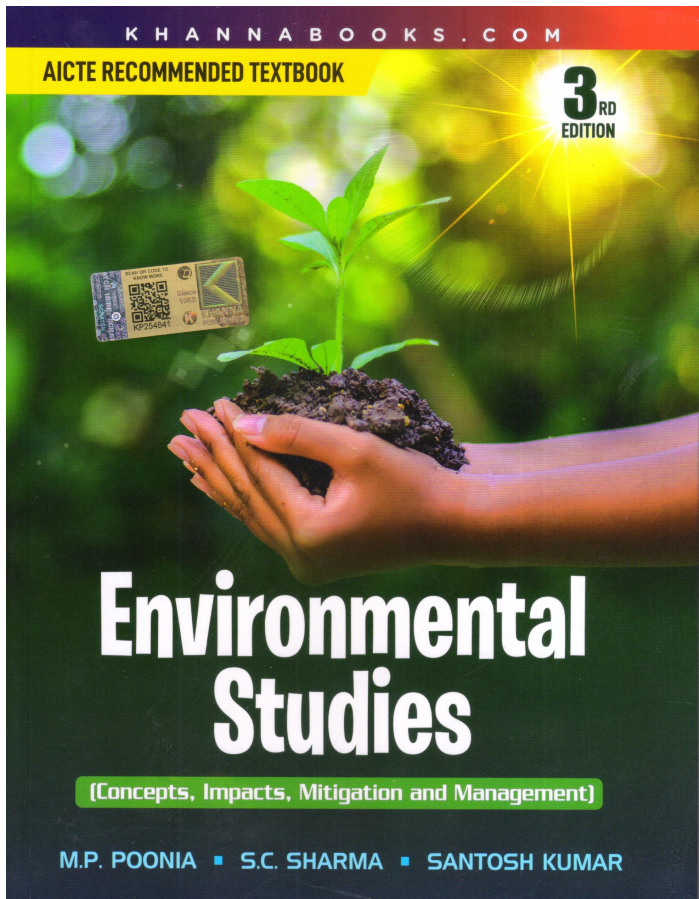
4C/4344, Ansari Road, Daryaganj, New Delhi-110002

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

Author

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. **S.C. Sharma** 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. **Santosh Kumar** Prof. Santosh Kumar, Former Professor of Civil Engineering at the Bihar College of Engineering/NIT Patna, obtained his Bachelor's degree in Civil Engineering from Regional Institute of technology/NIT Jamshedpur and Master's degree from University of Roorkee/NIT Roorkee. Further he obtained Dip. H.E. From Delft University, Netherlands. He completed his Ph.D from Patna University. Prof. Kumar taught water resources related subjects for more than 40 years. During his tenure he successfully guided four Ph.Ds. and a record 28 M.Tech dissertations. He also produced more than 50 research papers. Later he also acquired advanced knowledge in Environmental Science. Dr. Kumar was picked up by the World Bank as a consultant to its projects in Bihar at FMISC, where he served for four years. He is a Fellow of Institution of engineers India; Chairman Indian Water Resources Society (Patna Chapter).</p>





Environmental Studies

Author : M.P. Poonia

ISBN 13 : 978-93-90779-02-4

ISBN 10 : 93-90779-02-2

E-ISBN 13 : 978-93-90779-02-4

Edition : Third

Pages : 536

Type of book : Paperback

Weight (g) : 5

Year : 2024

Language : English

Publisher : Khanna Publishing House

Price : Rs 380.00

Categories : [All book](#), [Computer Science](#), [Engineering](#), [Environmental Engineering](#), [New Arrivals](#)

Condition Type : New

Country Origin : India

Product Description

Environmental degradation has been major concern since past few decades, because of economic growth and development across the world has caused major impacts on the Earth's ecosystems and natural resources to an extent that can limit the well-being of future generations. India has recently started realizing the importance of environmental and the environmental education. Following the 2001 Supreme Court directive, the environmental education has been or is being included in the curriculum right from the school stage to College/University level. This book covers the syllabi of all Indian Technical Universities and other Universities for different disciplines, may it be in the name of environmental studies, environmental science. ecology or natural resource management. This book is written to bring about an awareness of a variety of environmental concerns and deals form concepts through impacts, mitigation auto management.

Table of Contents

1. An Introduction - Multi-Disciplinary Nature of Environmental Studies 2. The Earth and the Biosphere (The Earth Sciences) 3. Ecology 4. Ecosystems 5. Biodiversity and its Conservation 6. Natural Resources 7. Forest Resources 8. Water Resources 9. Mineral Resources 10. Land (Soil) Resources 11. Energy Resources 12. Food Resources 13. Environmental Pollution (Hazards and Control) 14. Waste Management 15. Disaster Management 16. Social Issues 17. Environmental Challenges 18. Human Population and the Environment 19. Resettlement and Rehabilitation (R&R) 20. Environmental Protection 21. Environmental Legislations 22. Environmental Impact Assessment (EIA) 23. Environmental Management and Environmental Management Plan 24. Field Work (Project Work) Exercise (Distinguishing, Short Answer Questions, Expansions, Fill in the Blanks, MCQs, True-False)



Author

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. **S.C. Sharma** 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. **Santosh Kumar** Prof. Santosh Kumar, Former Professor of Civil Engineering at the Bihar College of Engineering/NIT Patna, obtained his Bachelor's degree in Civil Engineering from Regional Institute of technology/NIT Jamshedpur and Master's degree from University of Roorkee/NIT Roorkee. Further he obtained Dip. H.E. From Delft University, Netherlands. He completed his Ph.D from Patna University. Prof. Kumar taught water resources related subjects for more than 40 years. During his tenure he successfully guided four Ph.Ds. and a record 28 M.Tech dissertations. He also produced more than 50 research papers. Later he also acquired advanced knowledge in Environmental Science. Dr. Kumar was picked up by the World Bank as a consultant to its projects in Bihar at FMISC, where he served for four years. He is a Fellow of Institution of engineers India; Chairman Indian Water Resources Society (Patna Chapter).</p>



AICTE Recommended Textbook as per Model Curriculum - 2018


**KHANNA
PUBLISHING**


INDUSTRIAL SAFETY AND MAINTENANCE MANAGEMENT

M.P. POONIA • S.C. SHARMA


Industrial Safety and Maintenance Management

Author : M.P. Poonia

ISBN 13 : 978-93-86173-18-8

ISBN 10 : 93-86173-18-2

E-ISBN 13 : 978-93-86173-18-8

Edition : First

Pages : 456

**Type of
book :** Paperback

Year : 2024

Language : English

Publisher : Khanna Publishing House

Price : Rs 440.00

Categories : [All book](#), [Civil Engineering](#), [Fire and Safety Engineering](#), [Mechanical Engineering](#), [Mechanical Engineering](#), [UNIVERSITY RECOMMENDED](#)
**Condition
Type :** New

**Country
Origin :** India

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

Product Description

In the age of industrialisation having main focus on increased production, higher productivity, stringent quality, minimizing cost etc., it has become essential to have more knowledge on industrial safety and various hazards with their remedial measures. Maintenance aspects are also gaining importance, as they have substantial impact on production, productivity, workers safety and their health and working environment. Neglect of safety in an industry at any stage. from concept to design, erection, commissioning, operation and maintenance of plant and machinery may lead to loss of life, production and money. It is hoped that this book will be very useful for the engineering student and professionals. The book covers the AICTE model curriculum and the syllabii of various other Indian university on the subject.

Table of Contents

PART - 1: INDUSTRIAL SAFETY 1. Safety Concept 2. Accidents and Their Prevention 3. Accident Investigation and Reporting 4. Safety Management 5. Safety Audit and Safety Management Techniques 6. Hazards 7. Occupation Health and Hygiene 8. Ergonomics (Human Engineering) 9. Safety Performance 10. Fire and Explosions 11. Fire Prevention, Protection and Control 12. Electrical Safety 13. Common Hazards in Construction Industry 14. Hazards in Industry and Safe Working Practice 15. Safety in Materials Handling and Storage 16. Personal Protection Equipment (PPE) 17. Occupation Health and Safety Management System 18. First Aid and Medical Care

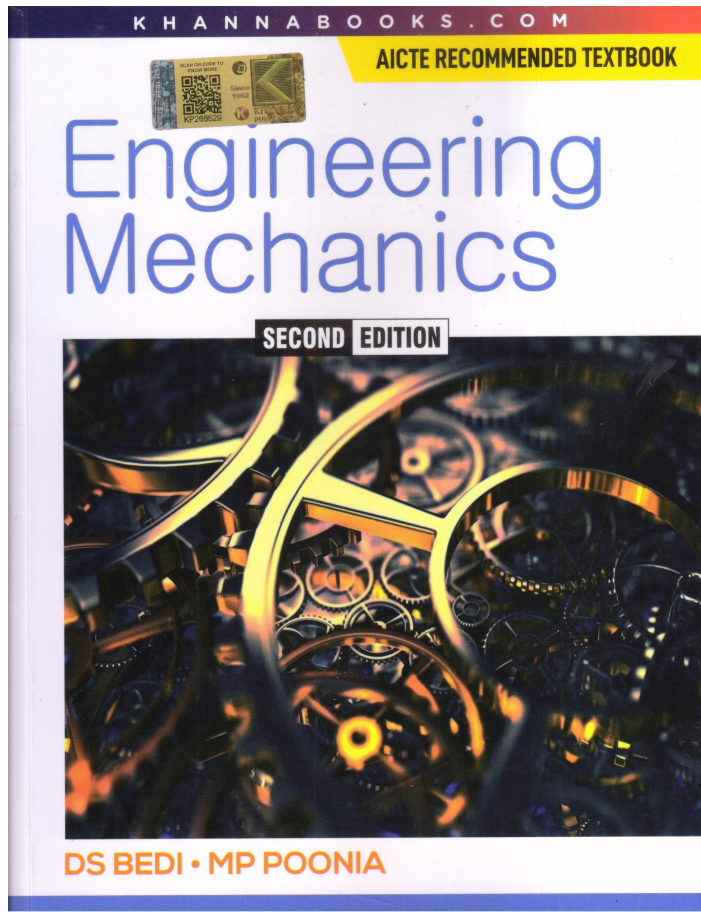
PART - 2: MAINTENANCE MANAGEMENT 19. Introduction to Maintenance 20. Maintenance Strategies/Types 21. Reliability Engineering 22. Maintenance, Availability and Failure Analysis 23. Replacements Economics 24. Maintenance and Repairs of Defects/Failures INDEX



Author

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. **S.C. Sharma** 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.





Engineering Mechanics

Author : D.S. Bedi

ISBN 13 : 978-93-86173-26-3

ISBN 10 : 93-86173-26-3

E-ISBN 13 : 978-93-86173-26-3

Edition : Second

Pages : 596

Type of book : Paperback

Year : 2025

Language : English

Publisher : Khanna Publishing House

Price : Rs 388.00

Categories : [All book](#), [Mechanical Engineering](#), [Mechanical Engineering](#), [UNIVERSITY RECOMMENDED](#)

Condition Type : New

Country Origin : India

Product Description

This book is based on expertise of the authors obtained through their long teaching careers. It is put up in a simple language so that it could cater to one and all.

The attention of the students is drawn to the topics of bending moments and twisting moments which are not properly explained in most of other books. They have been explained with the help of Vectors, which are used to present these quantities in such a way that one can easily distinguish between these two, as what is Bending moments and what is Twisting Motions.



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

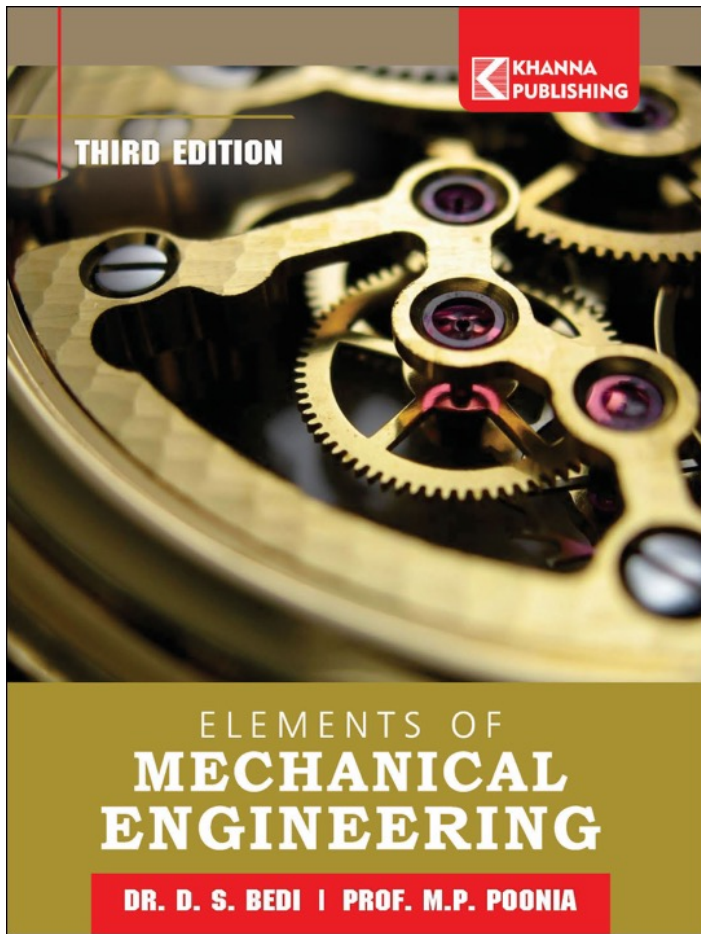
Chapter 1 : Two Dimensional Force System Chapter 2 : Friction Chapter 3 : Shearing Force and Bending Moment in Beams Chapter 4 : Truss Chapter 5 : Centroid, Centre of Gravity, Second Moment of Area and moment of Inertia Chapter 6 : Kinematics of Rigid Body Chapter 7 : Kinetics of Rigid Bodies Chapter 8 : Simple Stress and Strain Chapter 9 : Elastic Constants, Complex Stresses and Strain Energy Chapter 10 : Pure Bending of Beams Chapter 11 : Torsion
INDEX IMPORTANT MATHEMATICAL FORMULAE

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.





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

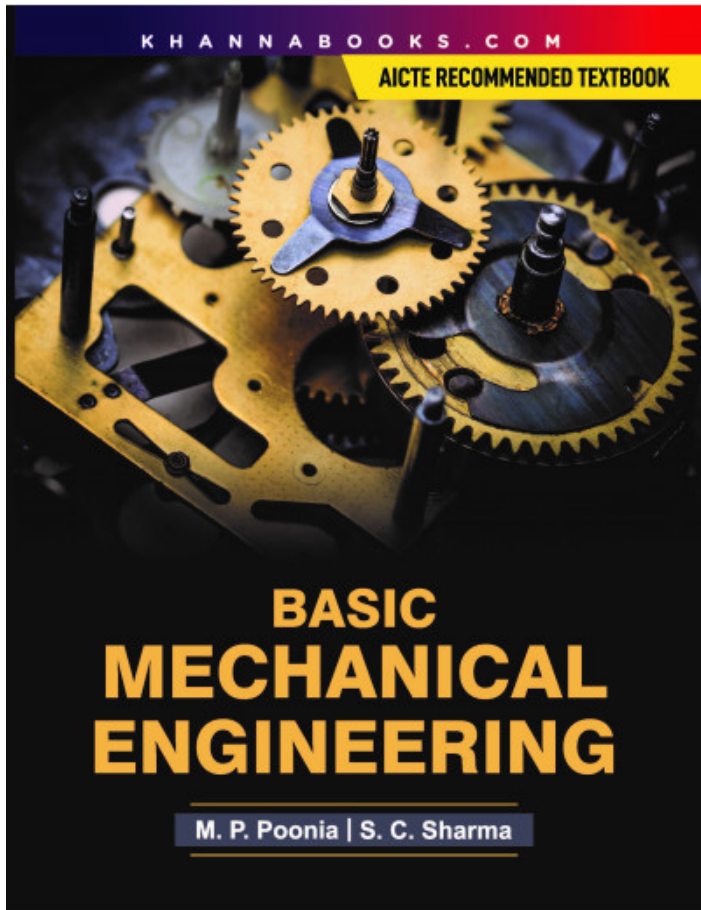
Index

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.





Basic Mechanical Engineering

Author : M.P. Poonia

ISBN 13 : 978-93-86173-33-1

ISBN 10 : 93-86173-33-6

E-ISBN 13 : 978-93-86173-33-1

Edition : First

Pages : 792

Type of book : Paperback

Year : 2023

Language : English

Publisher : Khanna Publishing House

Price : Rs 399.00

Categories : [All book](#), [Mechanical Engineering](#), [Mechanical Engineering](#), [UNIVERSITY RECOMMENDED](#)

Condition Type : New

Country Origin : India

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.



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: Mechanics - An Introduction
- Chapter 2: Transmission of Power
- Chapter 3: Fundamentals of Thermodynamics and Heat Transfer
- Chapter 4: Properties of Gases
- Chapter 5: Properties of Steam
- Chapter 6: Fuel and Combustion of Fuels
- Chapter 7: Thermal Power Plants 1-Steam Boilers (Generators)
- Chapter 8: Thermal Power Plants 2-Steam Engines, Turbines And Condenser
- Chapter 9: Air Compressors
- Chapter 10: Internal Combustion Engines (I.C Engines)
- Chapter 11: Fuel System in I.C Engines
- Chapter 12: Automobile Engineering
- Chapter 13: Gas Turbines
- Chapter 14: Refrigeration and Air Conditioning
- Chapter 15: Hydraulic Pumps
- Chapter 16: Hydraulic Devices
- Chapter 17: Hydro Electric Power Plants
- Chapter 18: Hydraulic Turbines
- Chapter 19: Sources of Energy
- Chapter 20: Engineering Materials Stress and Strain
- Chapter 21: Manufacturing Process-Mechanical Working of Metals
- Chapter 22: Pattern-Making Foundry and Casting
- Chapter 23: Welding Engineering
- Chapter 24: Tools, Jigs and Fixtures
- Chapter 25: Machine Tools
- Chapter 26: Automation and Robotics,
Robotics



Author

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. **S.C. Sharma** 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.

