

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): 630.00

Year: 2025

Language : English

Publisher: Khanna Publishing House

M.R.P: Rs 475.00

Categories : Civil Engineering, Civil

Engineering

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) · Quality Planning ·Organizing (Leadership) for Quality ·Continuous Process Improvement ·Customer Satisfaction ·Supplier Partnership ·Performance Measures ·Quality Gurus(Pioneers) of Total Quality Philosophy PART 2: TOOLS AND TECHNIQUES ·TQM Tools and Techniques-1 ·TQM Tools and Techniques-2 ·Fundamentals of Statistics ·Acceptance Sampling and O. C. Curves ·Statistical Process Control and Control Charts ·Process Capabilities ·Reliability Quality Management System

TABLE OF CONTENTS

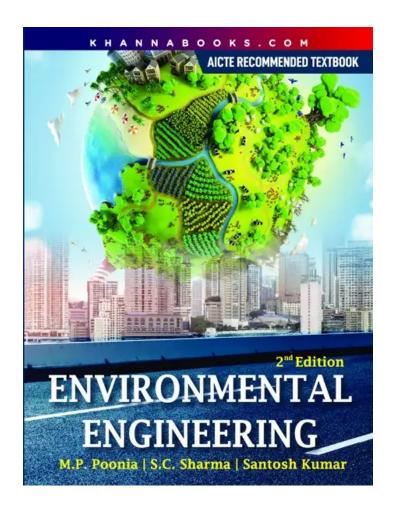
PART-1: PRINCIPLES AND PRACTICES Chapter 1: Quality Concepts. Chapter 2: Total Quality management Concepts (TQM Concept). Chapter 3: Quality Planning. Chapter 4: Organizing (Leadership) for Quality. Chapter 5: Continuous Process Improvement. Chapter 6: Customer Satisfaction. Chapter 7: Supplier Partnership. Chapter 8: Performance Measures. Chapter 9: Quality Gurus (Pioneers) of Total Quality Philosophy. PART 2: TOOLS AND TECHNIQUES Chapter 10: TQM Tools and Techniques-1. Chapter 11: TQM Tools and Techniques-2. Chapter 12: Fundamentals of Statistics. Chapter 13: Acceptance Sampling and O. C. Curves. Chapter 14: Statistical Process Control and Control Charts. Chapter 15: Process Capabilities. Chapter 16: Reliability. Chapter 17: Quality Management System.



Authors

M.P. POONIA: Born on 7th July 1959 in a small village of Rajasthan state in India, Prof. M.P. Poonia is specialized in the field of Mechanical Engineering (IC Engines, Gas Dynamics, Ref. & AC), Renewable Energy and Sustainable development. He is M. Tech (Mech.) and Ph. D (Thermal Engg.) from Indian Institute of Technology. Delhi. HE possesses more than 30 years of total experiences, out of which 6 years as principal of Govt. Engg. College, Bikaner (Rajasthan) and 1 year and two months as dean, Planning and Development in MNIT, Jaipur, (Rajasthan). He has published 80 papers in National and international journals and published/edited 8 books and manuals in the field of mechanical Engineering. He has the member of IEI, ISTE & Society of Automotive Engineers. Prof. Poonia is also a Google scholar. On 20th July, 2012 to 18th January, 2017, Prof. Poonia took up the responsibility of vice-chairman, All India council For Technical Education (AICTE). New Delhi. During the period from 20th July, 2012 to 18th January, say around a period of 41/2 year, prof. Poonia served as a director, national Institute of Technical Teacher Training and Research (NITTTR), established by ministry of human Resource Development, Govt. Of India, Chandigarh (India). Prof. Poonia made significant contribution as a Director, NITTR and Chandigarh for the growth and development of technical education in the northern state of India and to conduct the sub-regional and in-country programmes in collaboration with Colombo Plan Staff College for Technician Education, Manila, Philippines. Under his able leadership, the institute has to its credits, the conduct training Programme for Nigeria. He has undertaken the projects sponsored by All India Council for Technical Education, Dept. Of science and Technology, Delhi and Govt. of Rajasthan and MHRD, Govt. of India. He is the recipient of many Awards for his academic achievements and National Award for the Empowerment of persons with Disabilities - 2013 by the Hon'ble President of India on 3rd December, 2013 in New Delhi in recognition of outstanding performance in the field on Best Institution for Empowerment of Persons with Disabilities in the country. During his tenure as a director, NITTR, Chandigarh, he remained member of Board of Governors of, as many as 20 government/Autonomous bodies/Universities in the state of Punjab, Haryana, Himachal Pradesh, Delhi and Chandigarh. He has visited many countries like USA, China, Canada, Thailand and Singapore & Sri Lanka. S.C. SHARMA: After completion of graduation in 1966, joined as a Lecturer in Mechanical Engineering. He had been associated for more than 4 decades in various fields including teaching and management of projects in India and abroad in different capacities. While working in hydropower projects for more than 15 year, he was actively associated with various environmental and Rehabilitation & Resettlement issues and successfully resolved various complicated issues. He has also worked as a consultant for matters related to safety, environment, and R&R. He is a member of IE (India) and AIMA. He has written about a dozen books on subject related to engineering and management including management of projects.





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

Weight (g): 540.00

Year: 2023

Language: English

Publisher: Khanna Publishing House

M.R.P: Rs 499.00

Categories : Environmental Engineering,

Environmental Engineering

Condition Type: New

Country Origin: India

Product Description

This book covers the syllabi of "Environmental Engineering" and "Public Health Engineering" of various Indian Universities. The book is recommended in AICTE model curriculum. The book has been divided in 3 parts; namely; Water Supply Engineering; Sewage Engineering Air Pollution Engineering. The book is useful for Degree as well as Diploma students and is also likely to be useful for practising engineers in this field.



Table of Contents

Chapter 1: Introduction to Environmental Engineering.

PART -1.WATER SUPPLY ENGINEERING

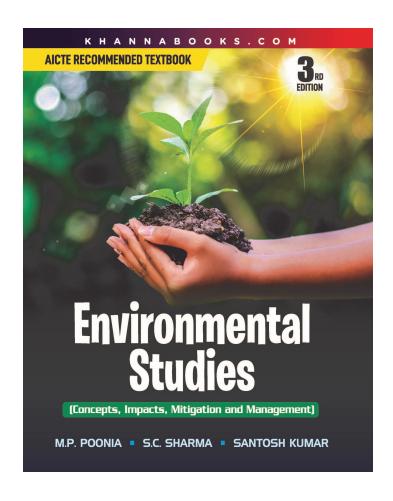
Chapter 2: Water Demands. Chapter 3: Source of Water. Chapter 4: Water Quality And Characteristics. Chapter 5: Transmission of Water. Chapter 6: Pumps And Pumping Stations. Chapter 7: Purification of Water Supply. Chapter 8: Water Distribution System. Chapter 9: Plumbing Systems In Buildings. Chapter 10: Rural Water Supply. PART-2. SEWAGE DISPOSAL AND SOLID WASTE MANAGEMENT Chapter 11: Waste Water (Sanitation) System. Chapter 12: Sewage Construction, Maintenance And Appurtenances. Chapter 13: Sewage Pumping And Pumping Stations. Chapter 14: Sewage Collection From Residential And Other Buildings. Chapter 15: Disposal of Sewage Effluents. Chapter 16: Treatment of Sewage (Domestic Wastewaters). Chapter 17: Treatment of Industrial Wastewater. Chapter 18: Solid Waste And Its Management. PART-3. AIR POLLUTION ENGINEERING AND NOISE POLLUTION Chapter 19: Air Pollution, Causes And Effects. Chapter 20: Air Pollution Control. Chapter 21: Noise Pollution And Control. PART-4. ENVIRONMENT IMPACT ASSESSMENT AND SOME IMPORTANTS TOPOICS Chapter 22: Environment Impact Assessment (EIA). Chapter 23: Some Important Topics. Chapter 24: Appendix-I: Question Bank Index



Authors

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).





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): 720.00

Year: 2025

Language : English

Publisher: Khanna Publishing House

M.R.P: Rs 495.00

Categories: Computer Science Engineering,

Environmental Engineering

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

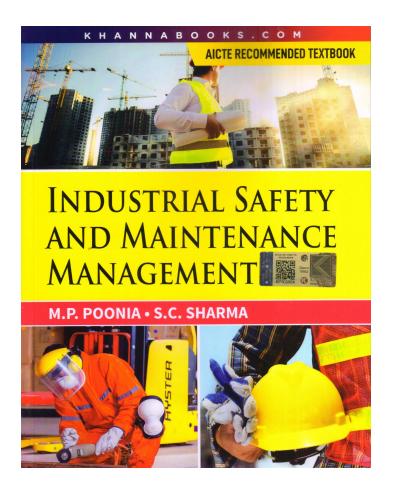
Chapter 1: Introduction - Multi-Disciplinary Nature of Environmental Studies. Chapter 2: The Earth and the Biosphere (The Earth Sciences). Chapter 3: Ecology. Chapter 4: Ecosystems. Chapter 5: Biodiversity and its Conservation. Chapter 6: Natural Resources. Chapter 7: Forest Resources. Chapter 8: Water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



Authors

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 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. 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).





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

Weight (g): 670.00

Year: 2025

Language: English

Publisher: Khanna Publishing House

M.R.P: Rs 550.00

Categories: Civil Engineering, Civil

Engineering

Condition Type: New

Country Origin: India

Product Description

In the age of industrialization 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 syllabi of various other Indian university on the subject.



Table of Contents

PART - 1: INDUSTRIAL SAFETY Chapter 1: Safety Concept. Chapter 2: Accidents and Their Prevention. Chapter 3: Accident Investigation and Reporting. Chapter 4: Safety Management. Chapter 5: She Audit and Safety Management Techniques. Chapter 6: Hazards. Chapter 7: Occupation Health and Hygiene. Chapter 8: Ergonomics (Human Engineering). Chapter 9: Safety Performance. Chapter 10: Fire and Explosions. Chapter 11: Fire Prevention, Protection and Control. Chapter 12: Electrical Safety. Chapter 13: Common Hazards in Construction Industry. Chapter 14: Hazards in Industry and Safe Working Practice. Chapter 15: Safety in Materials Handling and Storage. Chapter 16: Personal Protection Equipment (PPE). Chapter 17: Occupation Health and Safety Management System. Chapter 18: First Aid and Medical Care. PART - 2: MAINTENANCE MANAGEMENT Chapter 19: Introduction to Maintenance. Chapter 20: Maintenance Strategies/Types. Chapter 21: Reliability Engineering. Chapter 22: Maintenance, Availability and Failure Analysis. Chapter 23: Replacements Economics. Chapter 24: Maintenance and Repairs of Defects/Failures. INDEX

Authors

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** 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.



K H A N N A B O O K S . C O M

AICTE RECOMMENDED TEXTBOOK

Engineering Mechanics



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

Weight (g): 830.00

Year: 2025

Language : English

Publisher: Khanna Publishing House

M.R.P: Rs 525.00

Categories: Mechanical Engineering,

Mechanical Engineering

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.



Table of Contents

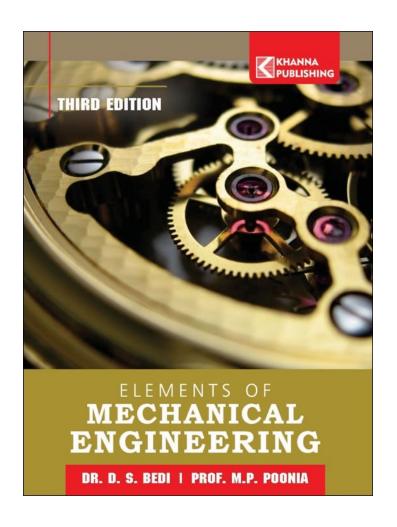
Chapter 1: Two Dimensional Force System. Chapter 2: Friction. Chapter 3: Shearing Force and Bending Moment in Beams. Chapter 4: Truss. Chapter 5: Centroid, Centre of Gravity, Second Moment of Area and moment of Inertia. Chapter 6: Kinematics of Rigid Body. Chapter 7: Kinetics of Rigid Bodies. Chapter 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

Authors

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. **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): 1000.00

Year: 2019

Language: English

Publisher: Khanna Publishing House

M.R.P: Rs 450.00

Categories: Mechanical Engineering,

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.



Table of Contents

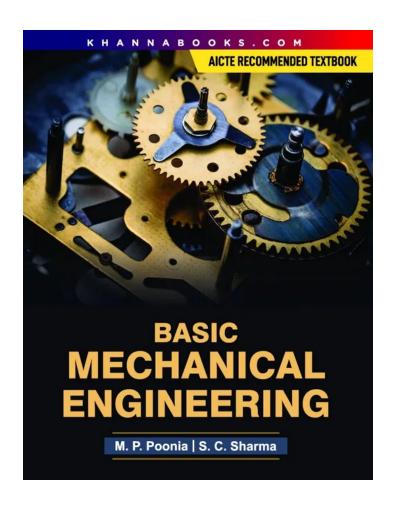
Chapter 1: Basic Concepts of Thermodynamics. Chapter 2: Properties of Pure Substances. Chapter 3: First Law of Thermodynamic-Closed Systems. Chapter 4: First Law of Thermodynamics Applied to Flow Processes. Chapter 5: Second Law of Thermodynamics. Chapter 6: Entropy. Chapter 7: Gas Power Cycles. Chapter 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

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. **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

Weight (g): 1000.00

Year: 2025

Language : English

Publisher: Khanna Publishing House

M.R.P: Rs 648.00

Categories: Mechanical Engineering,

Mechanical Engineering

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.



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.

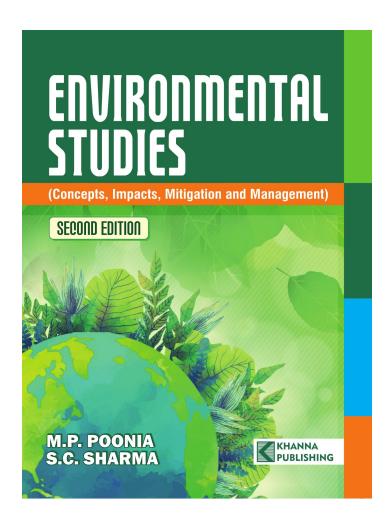
Robotics



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.





Environmental Studies

Author: M.P. Poonia

ISBN 13: 978-93-86173-09-6

ISBN 10: 93-86173-09-3

E-ISBN 13: 978-93-86173-09-6

Edition: Second

Pages: 460

Type of book : Paperback

Weight (g): 600.00

Year: 2021

Language : English

Publisher: Khanna Publishing House

M.R.P: Rs 399.00

Civil Engineering,

Categories: Environmental Engineering,

Environmental Engineering

Condition Type: New

Country Origin: India

Product Description

Environmental degradation has been a 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 environment 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 the 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 from concepts through impacts, mitigation auto management.



Table of Contents

Chapter 1: An Introduction (Multidisciplinary Nature of Environmental Studies)

Chapter 2: The Earth and The Biosphere (Earth Sciences)

Chapter 3: Ecology

Chapter 4: Ecosystems

Chapter 5: Biodiversity and Conservation

Chapter 6: Natural Resources

Chapter 7: Forest Resources

Chapter 8: Water Resources

Chapter 9: Mineral Resources

Chapter 10: Land (Soil) Resources

Chapter 11: Energy Resources

Chapter 12: Food Resources

Chapter 13: Environmental Pollution (Hazards) and Control

Chapter 14: Waste Management

Chapter 15: Disaster Management

Chapter 16: Social Issues

Chapter 17: Environmental Challenges

Chapter 18: Human Pollution and The Environment

Chapter 19: Resettlement and Rehabilitation (R & R)

Chapter 20: Environmental Protection

Chapter 21: Environmental Legislation

Chapter 22: Environmental Impact Assessment (EIA)

Chapter 23: Environmental Management and Environmental Management Plan (EMP)

Objective Type Question



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.

