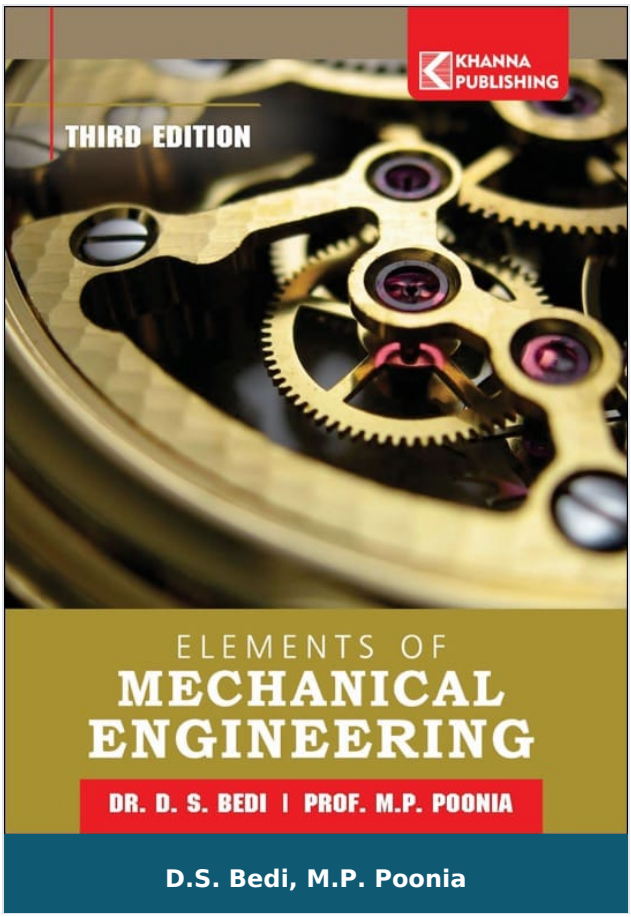


Elements of Mechanical Engineering

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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.

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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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Table Of Contents

- Basic Concepts of Thermodynamics
- Properties of Pure Substances
- First Law of Thermodynamic-Closed Systems
- First Law of Thermodynamics Applied to Flow Processes
- 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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cum-Consultant at G.G.S. College of Modern Technology (Punjab); Director, Punjab College of Engineering; Technology, Punjab.

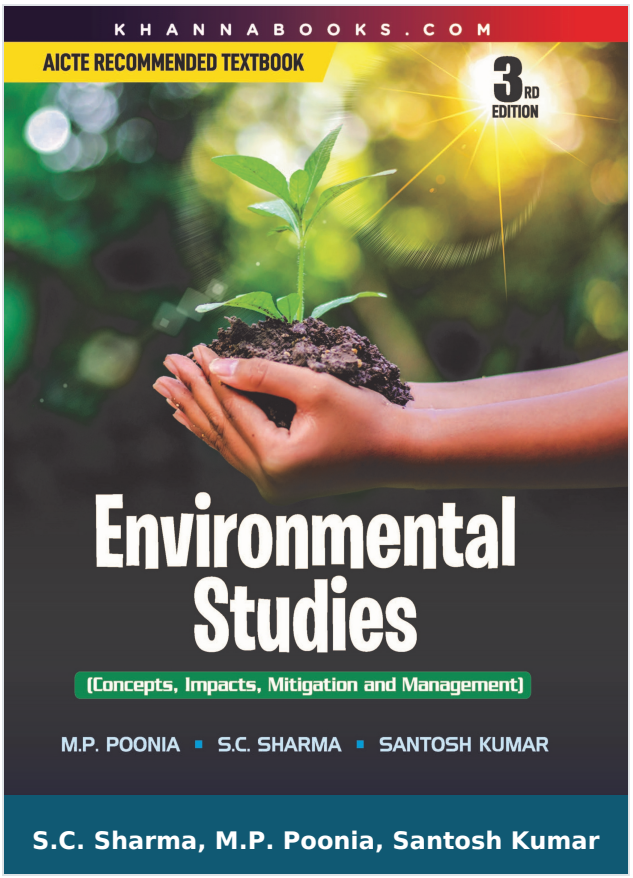
M.P. Poonia

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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.

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Table Of Contents

- An Introduction - Multi-Disciplinary Nature of Environmental Studies
- The Earth and the Biosphere (The Earth Sciences)
- Ecology
- Ecosystems
- Biodiversity and its Conservation
- Natural Resources
- Forest Resources
- Water Resources
- Mineral Resources
- Land (Soil) Resources
- Energy Resources
- Food Resources
- Environmental Pollution (Hazards and Control)
- Waste Management
- Disaster Management
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- Field Work (Project Work)
- Exercise (Distinguishing, Short Answer Questions, Expansions, Fill in the Blanks, MCQs, True-False)

Author

S.C. Sharma

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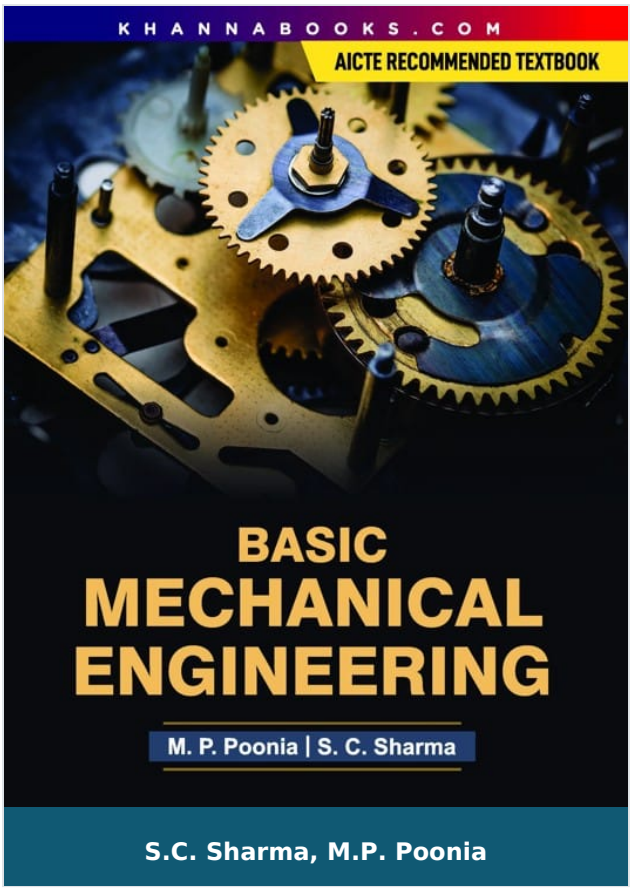
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Product Description

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.

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- Fundamentals of Thermodynamics and Heat Transfer
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- Properties of Steam
- Fuel and Combustion of Fuels
- Thermal Power Plants 1-Steam Boilers (Generators)
- Thermal Power Plants 2-Steam Engines, Turbines And Condenser
- Air Compressors
- Internal Combustion Engines (I.C Engines)
- Fuel System in I.C Engines
- Automobile Engineering
- Gas Turbines
- Refrigeration and Air Conditioning
- Hydraulic Pumps
- Hydraulic Devices
- Hydro Electric Power Plants
- Hydraulic Turbines
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- Machine Tools
- Automation and Robotics,
- Robotics
- Appendices
- Index

Author

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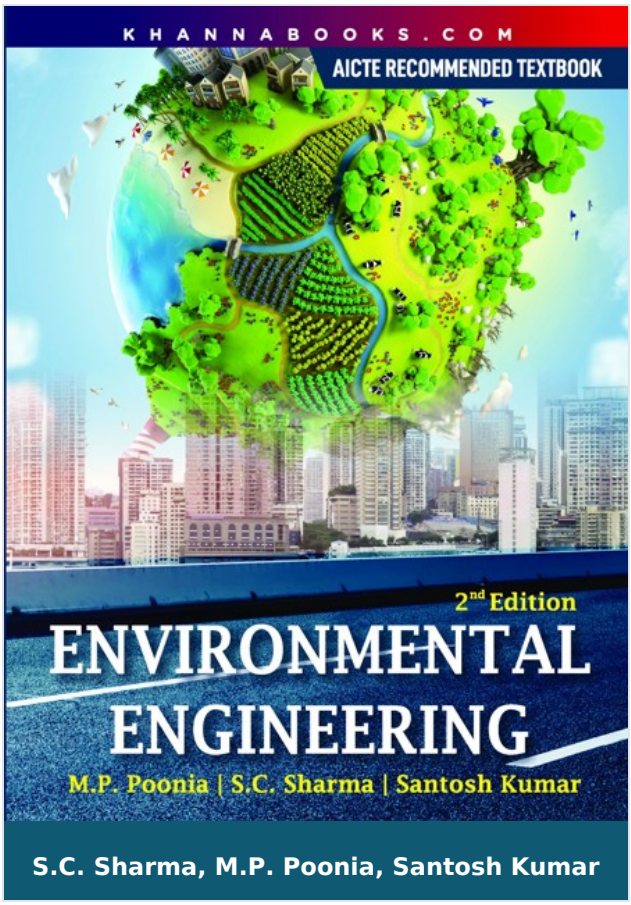
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Environmental Engineering

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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.

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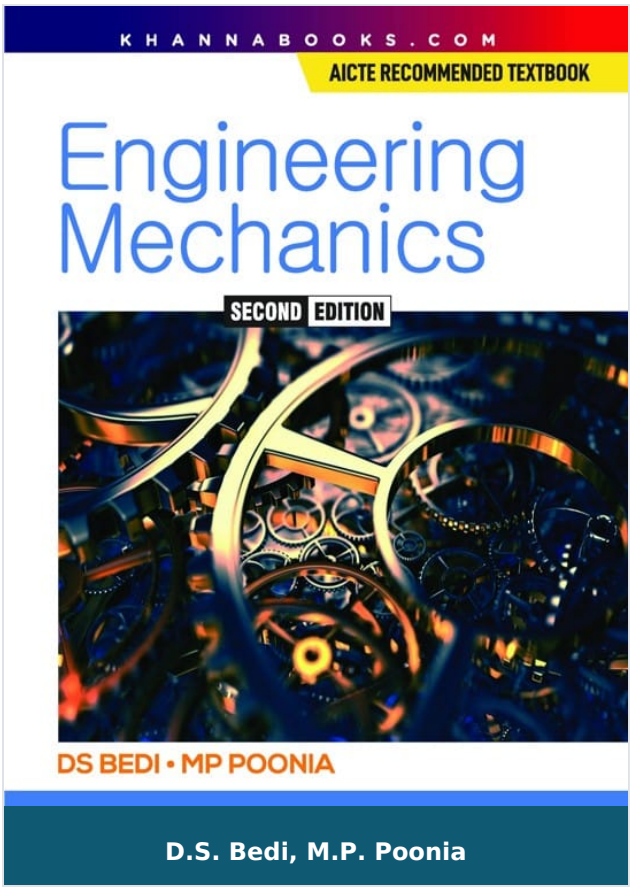
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D.S. Bedi, M.P. Poonia

Engineering Mechanics

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Table Of Contents

- Two Dimensional Force System
- Friction
- Shearing Force and Bending Moment in Beams
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- Centroid, Centre of Gravity, Second Moment of Area and moment of Inertia
- Kinematics of Rigid Body
- Kinetics of Rigid Bodies
- Simple Stress and Strain
- Elastic Constants, Complex Stresses and Strain Energy
- Pure Bending of Beams
- Torsion
- INDEX
- IMPORTANT MATHEMATICAL FORMULAE

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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-cum-Consultant at G.G.S. College of Modern Technology (Punjab); Director, Punjab College of Engineering; Technology, Punjab.

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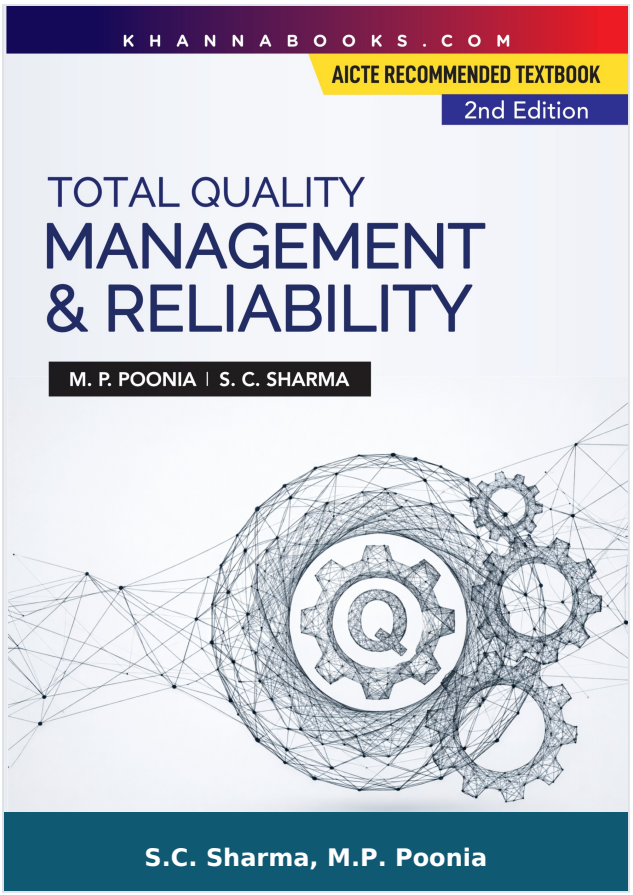
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Total Quality Management and Reliability

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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

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·Quality Planning

·Organizing (Leadership) for Quality

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·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

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·Acceptance Sampling and O. C. Curves

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·Reliability Quality Management System

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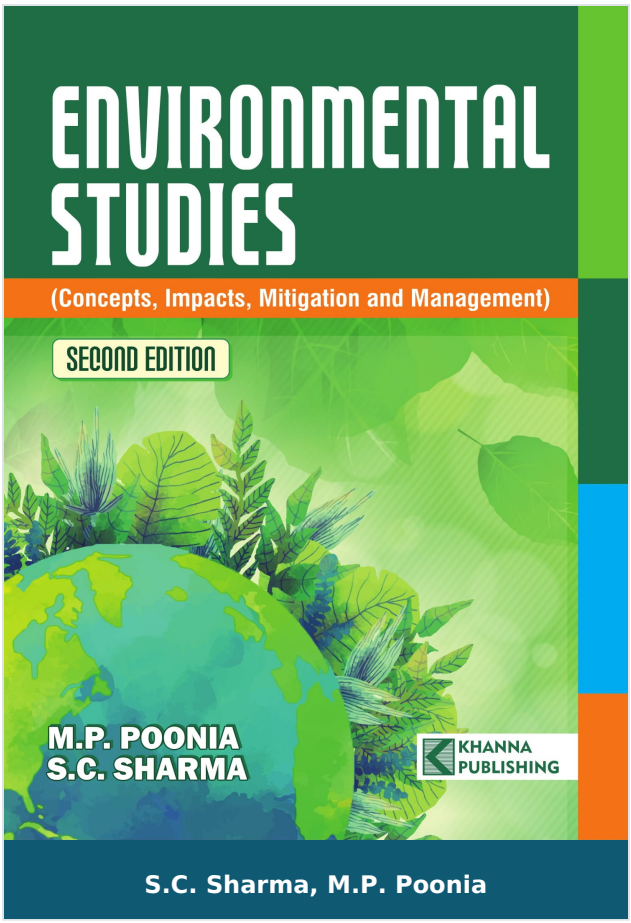
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Environmental degradation has been a major concern since past few decades, because of economic growth and development across the world has caused major impacts on the Earth's ecosystems and natural resources to an extent that can limit the well-being 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.

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- An Introduction (Multidisciplinary Nature of Environmental Studies)
- The Earth and The Biosphere (Earth Sciences)
- Ecology
- Ecosystems
- Biodiversity and Conservation
- Natural Resources
- Forest Resources
- Water Resources
- Mineral Resources
- Land (Soil) Resources
- Energy Resources
- Food Resources
- Environmental Pollution (Hazards) and Control
- Waste Management
- Disaster Management
- Social Issues
- Environmental Challenges
- Human Pollution and The Environment
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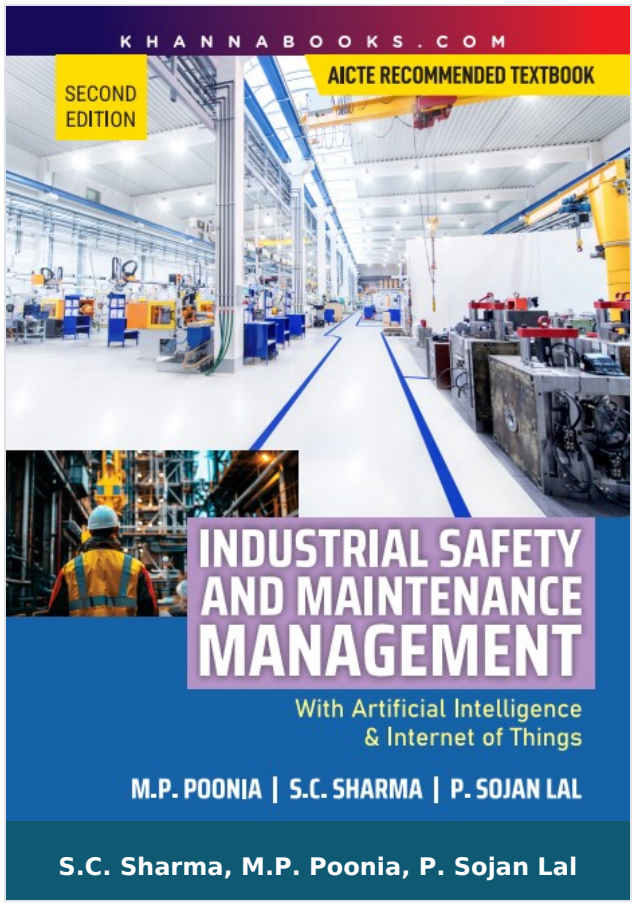
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In the age of industrialization having main focus on increased production, higher productivity, stringent quality, minimizing cost etc., it has become essential to have more knowledge on industrial safety and various hazards with their remedial measures. 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.

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Table Of Contents

- PART - 1: INDUSTRIAL SAFETY
- Safety Concept
- Accidents and Their Prevention
- Accident Investigation and Reporting
- Safety Management
- She Audit and Safety Management Techniques
- Hazards
- Occupation Health and Hygiene
- Ergonomics (Human Engineering)
- Safety Performance
- Fire and Explosions
- Fire Prevention, Protection and Control
- Electrical Safety
- Common Hazards in Construction Industry
- Hazards in Industry and Safe Working Practice
- Safety in Materials Handling and Storage
- Personal Protection Equipment (PPE)
- Occupation Health and Safety Management System
- First Aid and Medical Care
- PART - 2: MAINTENANCE MANAGEMENT
- Introduction to Maintenance
- Maintenance Strategies/Types
- Reliability Engineering

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- Maintenance, Availability and Failure Analysis
- Replacements Economics
- Maintenance and Repairs of Defects/Failures
- INDEX

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