

# Industrial Engineering and Management

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## **Product Description**

The book "Industrial Engineering Management" Covers the syllabus of the subjects Industrial Engineering, Industrial management, Production Planning and Control, Production Management, Engineering Economics and Costing, Industrial Organization, Principles of management courses, section B of AIME, and U.P.S.C Engineering Services Examination. Efforts have been made to present the subject matter in concise, compact and simple language. The theoretical concepts have been supported by large number of numerical illustrations to provide clarity.



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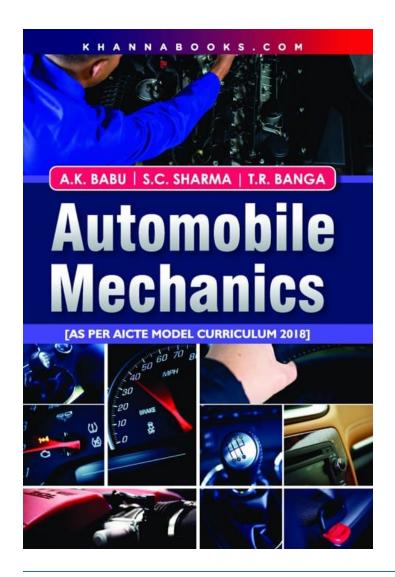
Chapter 1: Introduction to Industrial Engineering and Industrial Management. Chapter 2: Management Concepts.

Chapter 3: Function of Management. Chapter 4: Organization. Chapter 5: Personal (Human Resource management). Chapter 6: Motivation, Moral and Behavioral Science. Chapter 7: Job Evaluation, Wages and Incentive. Chapter 8: Industrial Relations and Trade Union. Chapter 9: Industrial Legislation (Labor Laws). Chapter 10: Work Study-1 (Method Study). Chapter 11: Work Study-2 (Time Study or Work Measurement). Chapter 12: Ergonomics (Human Engineering). Chapter 13: Production and Productivity. Chapter 14: Product Design and Development. Chapter 15: Production Planning and Control. Chapter 16: Market Research and Sales Forecasting. Chapter 17: Value Engineering (Value Analysis). Chapter 18: Plant Location and Layout. Chapter 19: Decision-Making. Chapter 20: Network Analysis (Techniques). Chapter 21: Inspection and Acceptance Sampling. Chapter 22: Quality Control and Quality Assurance. Chapter 23: Total Quality Management. Chapter 24: Purchasing and Stock-Keeping. Chapter 25: Material Management (M.M.). Chapter 26: Inventory Management. Chapter 27: Financial Management. Chapter 28: Indirect Expense and Depreciation. Chapter 29: Elements of Economics (Economic Concepts). Chapter 30: Engineering and Managerial Economics. Chapter 31: Break-Even Analysis. Chapter 32: Equipment for Costs, Costing and Cost Control. Chapter 33: Environmental Pollution and Control.

#### **Author**

**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. **T.R. Banga** He is Formerly Principal Govt. Polytechnic, Alwar Rajasthan.





## **Automobile Mechanics**

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### **Product Description**

The book is designed to become a valid source of information to assist the student both in and out of the classroom to attain his or her objective. the structure of the text book is as follows: Chapter 1 is an introduction to the book, covering the basic information on automobiles. Chapter 2 deals with engines and their auxiliary units. Chapters 3-10 cover several aspects of design of automobile components - SI system, background mathematics and advice on problem solving, particularly exam questions. Chapters 11-15 cover essential theory part of support system for vehicles. Numerous designs and fully worked problems are provided at the end of the chapter. It is expected that as the student works through the examples and problems, he or she will develop a greater understanding of the mathematics required for engineering. To help the student develop a sound grasp of the principles covered there are many diagrams, notes and applications as an aid to develop knowledge and facilitate understanding.



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Chapter 1: Automobile. Chapter 2: Engine. Chapter 3: Frame. Chapter 4: Clutch. Chapter 5: Gearbox. Chapter 6: Propeller-shaft Assembly. Chapter 7: Final Drive and Differential Assembly. Chapter 8: Axle. Chapter 9: Steering. Chapter 10: Suspension System. Chapter 11: Brake System. Chapter 12: Wheel and Tyre. Chapter 13: Vehicle Electrical System. Chapter 14: Instruments and Accessories.

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A.K. BABU is working as Associate Professor in the Department of Automobile Engineering, SRM Easwari Engineering College, Chennai, India. He has over 18 years of experience in teaching, research and industry.A.K. BABU, completed his Master Degree in Automobile Engineering from Madras Institute of Technology (M.I.T.), Anna University (1997). He has served in other countries like Malaysia, Ethiopia and Eritrea for more than 5 years. A.K. BABU has published considerable number of research papers in international journals and conferences. His research paper published in SAE Journal of Fuels and Lubricants awarded one the most outstanding papers in the year 2003. 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. T.R. BANGA He is Formerly Principal Govt. Polytechnic, Alwar Rajasthan.

