



## Total Quality Management and Reliability

**Author :** M.P. Poonia

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## Product Description

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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

#### PART-1: PRINCIPLES AND PRACTICES

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

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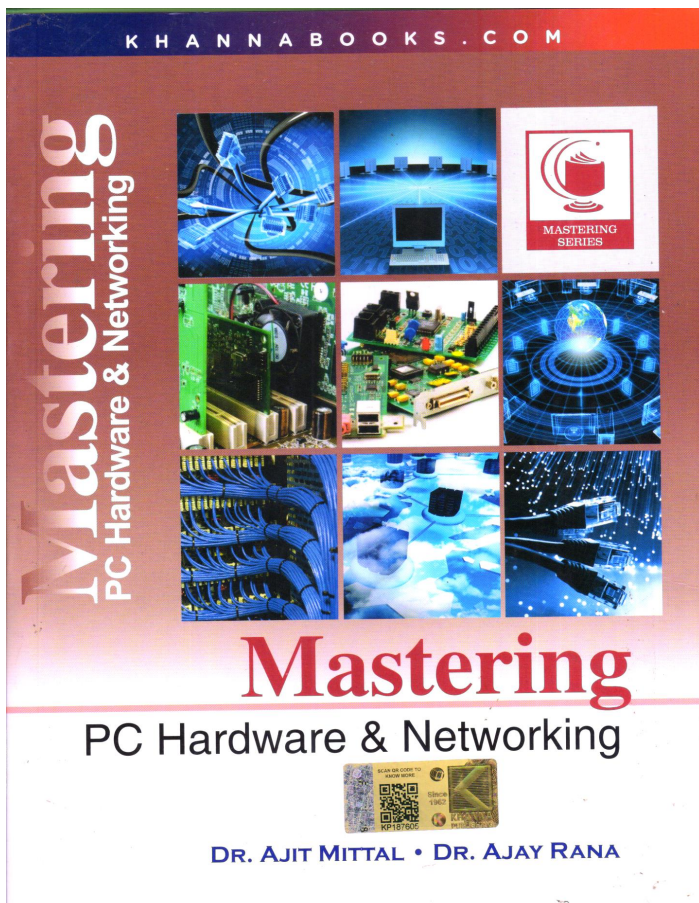
## TABLE OF CONTENTS

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#### 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





## Mastering PC Hardware & Networking

**Author :** Ajay Rana

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### Product Description

Hardware and networking from the basic cores of the computer knowledge, not only for the users but also for the people who are there to take care of the computer system. They are the ones who would become Hardware Engineers. Networking is another important aspect of the computer system. In fact, it forms the base for internet. In this book various aspects of networking are covered. Starting from various types of topologies, it goes on to trace the security, architecture, connectivity and administration, etc. The book ends up with a chapter on wireless networking.



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Chapter 1: Computer System Chapter 2: Mouse Chapter 3: Scanner Chapter 4: Keyboard Chapter 5: Monitor Chapter 6: Printer Chapter 7: Optical Media Chapter 8: Hard Disk Drive Chapter 9: Floppy Disk Drive Chapter 10: Processors Chapter 11: Motherboards Chapter 12: Power Supplies Chapter 13: Bios Chapter 14: Beep Codes Chapter 15: Buses and Memory Chapter 16: I/O Interfaces Chapter 17: Computer Installation Chapter 18: New Computer Devices Chapter 19: Data Recovery and BIOS Updating Chapter 20: Communication Technology Chapter 21: Network Technology Chapter 22: Designing the Network Chapter 23: Network Security Chapter 24: Network Architecture Chapter 25: Network Connectivity Chapter 26: Network Administration Security Chapter 27: Wireless Networking

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## Author

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**Ajit Mittal** "Dr. Ajit Mittal M. Com. Ph.D. (U.P) MBA (Finance) Professor, Amity International Business School, Amity University , Noida. " **Ajay Rana**

**Dr. Ajay Rana**

*Professor, Department of Computer Science & Engineering*

*Dean and Director, Amity University*

- 30+ patents under his name in the field of IoT, Network & Sensors
- 279+ Research publications
- Co-authored 6 Books
- Completed 30 Sponsored Research Projects
- Senior member, Academic Council & Executive Council, Amity University
- Strong corporate connect

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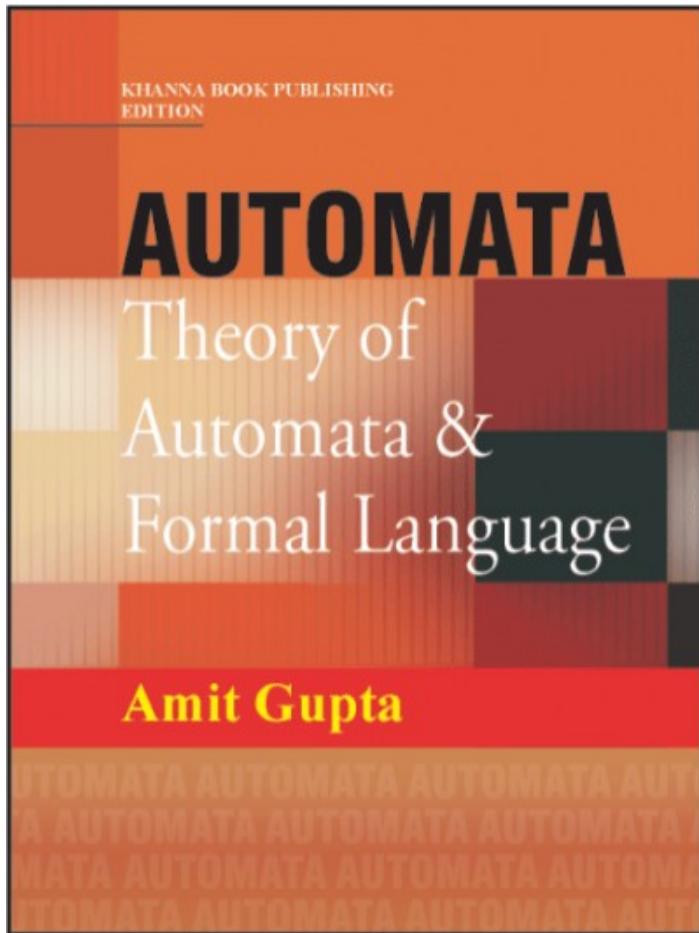
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## Theory of Automata and Formal Languages

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### Product Description

Easy-to-read & write style. A step-by-step solution of DEA & NFA approach that is used in almost all DFA & NFA approach that is used in almost all DFA & NFA examples in chapter 03 (Finite State Machine). Every chapter is supported with multiple choice questions, theoretical questions and numerical for better practice. Due care is taken to balance the mix of notations and words in mathematical statements. The book is presented with an approach to explain the concepts in lucid style and comprehensible language. A large number of attractive and accurate figure and graphs have been drawn which enable students to grasp the subject in an easy way. Systematic and sequential arrangement of different topics. Rich pedagogy.



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## Table of Contents

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Chapter 1: Mathematical Preliminaries Chapter 2: Formal Languages Chapter 3: Finite State Machine Chapter 4: Regular Expressions and Regular Grammar Chapter 5: Context-free Grammar Chapter 6: Pushdown Automata Chapter 7: Turing Machine Chapter 8: Decidability and Indecisiveness (Undecidability) Chapter 9: Theory of Recursive Function and Intractability Chapter 10: Propositions and Predicates

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## Author

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**Amit Gupta** Amit Gupta: Asst. professor, Department of CS & IT, Rakshpal Bahadur Management Institute, Bareilly.

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# INDUSTRIAL SAFETY AND MAINTENANCE MANAGEMENT

**M.P. POONIA • S.C. SHARMA**


## Industrial Safety and Maintenance Management

**Author :** M.P. Poonia

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## 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





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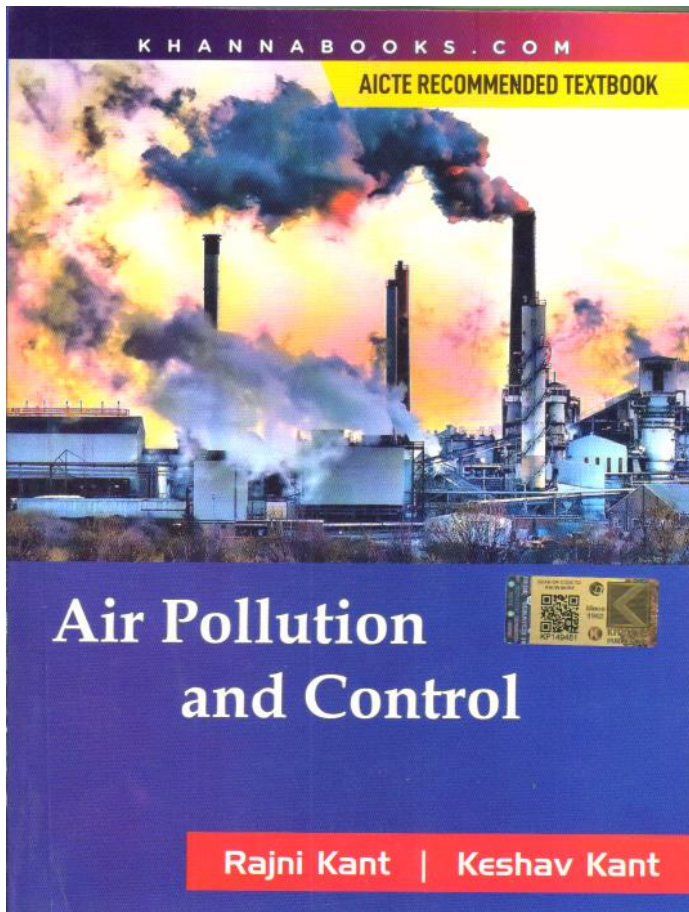
## Author

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**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.

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## Air Pollution and Control

**Author :** Keshav Kant

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## Product Description

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This book provides a fully comprehensive, rigorous and refreshing treatment of 'Air Pollution and Control' covering present day technology and developments. It covers various new topics like bioaerosols or aeroallergens and hazardous air pollutants including diesel exhaust and dioxins.

The book is intended to meet the requirements of (a) Undergraduate and postgraduate students of particularly Environmental and Mechanical Engineering and also other branches of Engineering, (b) Technologists, designers, operation and maintenance engineers of industries, electrical power plants, heat and power utilities, (c) Aspirants for competitive examinations of IAS, IES, IFS, PCS, and aspirants for various state and private technical services, etc. and (d) General readers interested in the field for better understanding and knowledge.

The book is divided into 20 chapters and presents enormous information covering all aspects of Air Pollution in various sectors relevant to Indian conditions. Each of the following chapters is followed by questions at the end based upon the text.

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## Table of Contents

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Chapter-1: Introduction Chapter-2: Sources of Air Pollution and their Ill-effects Chapter-3: Effects of meteorological Conditions on Air Pollution Chapter-4: Control of Emission of Suspended Particulate Matter in Coal Fired Thermal power Stations Chapter-5: Control of Oxides of Nitrogen in Combustion of Fossil fuels in Power Generation and Industries Chapter-6: Control of Emission of Oxides of sulphur by Absorption Systems Internal to Boilers Chapter-7: Control of Emission of Oxides of sulphur(SO<sub>x</sub>) for Flue Gases of Boilers Chapter-8: Air Pollution from Industries and Their Control Chapter-9: Air Pollution in Petroleum Refineries Chapter-10: Control of Mercury Emission from Thermal Power Stations and Industries Chapter-11: Air Pollution by Nuclides / Radioactivity - Safety and Control Chapter-12: Air Pollution by Municipal Solid Wastes, Biomedical Wastes and E-Wastes and Their Control Chapter-13: Control of Air Pollution from Mobile Sources and Standards Applicable Chapter-14: Damage due to Air Pollution to Electronic / Electrical Equipments and protective Measures Chapter-15: Emission Limits Imposed by Indian regulations Chapter-16: Measurements of Air Pollutants Chapter-17: Control of Noise Pollution Chapter-18: Control of Odours Chapter-19: Environmental Impact Assessment for Projects Chapter-20: Miscellaneous Topics



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## Author

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**Keshav Kant** Dr. Keshav Kant is a former Professor of Mechanical Engineering, I.I.T. Kanpur, who after superannuation from I.I.T. Kanpur in June 2005, served as professor and Head of Mechanical Engineering Department and later as the Director in a number of Private Engineering Colleges/ Institutes. He has three Monographs, five technical reports, 90 publications to his credit in National and International Journals and Proc. of National and International Conference. **Rajni Kant** Er. Rajni Kant, an Engineering Graduate from BHU in 1954, received an extensive training in the works of M/S Hitachi Ltd. Japan and also at large capacity power stations and projects of Georgia Power Company (USA). He has more than 50 years of experience to his credit in the aforesaid fields and has authored about 40 papers in various fields including Power Plant and Environmental Engineering which were published in National and International Journals and Proceeding of National and International Conferences.

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