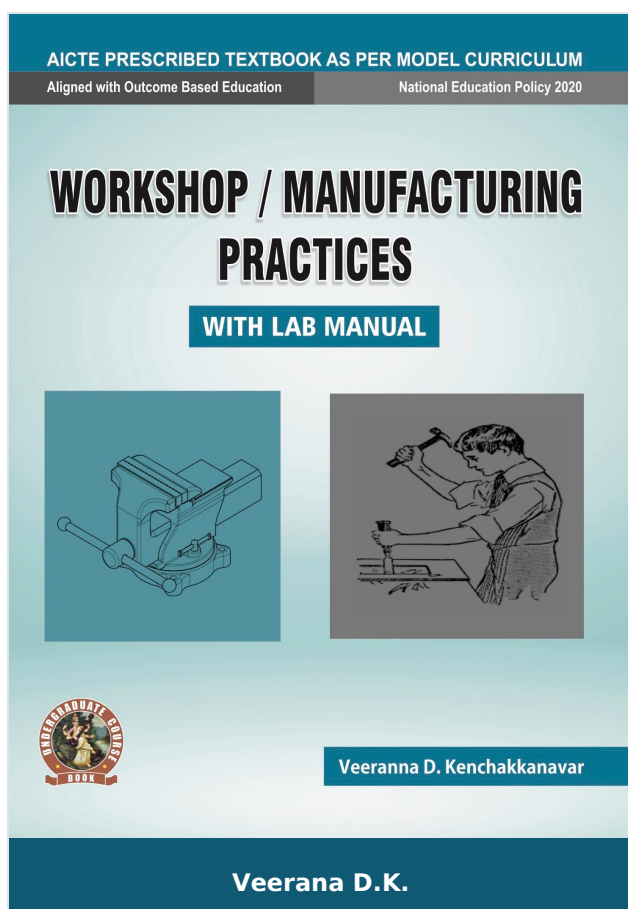




## Workshop / Manufacturing Practices (with Lab Manual)

|                         |                                                                                                                                                                           |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Author :</b>         | Veerana D.K.                                                                                                                                                              |
| <b>ISBN 13 :</b>        | 978-93-91505-33-2                                                                                                                                                         |
| <b>ISBN 10 :</b>        | 9391505333                                                                                                                                                                |
| <b>E-ISBN 13 :</b>      | 978-93-91505-33-2                                                                                                                                                         |
| <b>Edition :</b>        | First                                                                                                                                                                     |
| <b>Pages :</b>          | 172                                                                                                                                                                       |
| <b>Type of book :</b>   | Physical                                                                                                                                                                  |
| <b>Year :</b>           | 2022                                                                                                                                                                      |
| <b>Language :</b>       | English                                                                                                                                                                   |
| <b>Publisher :</b>      | Khanna Publishing House                                                                                                                                                   |
| <b>M.R.P :</b>          | Rs 295.00                                                                                                                                                                 |
| <b>Categories :</b>     | <a href="#">AICTE Prescribed Textbooks,</a><br><a href="#">English Books, Book Store,</a><br><a href="#">Ebooks, APPLIED SCIENCES &amp;</a><br><a href="#">HUMANITIES</a> |
| <b>Condition Type :</b> | New                                                                                                                                                                       |
| <b>Country Origin :</b> | India                                                                                                                                                                     |

## Product Description

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The textbook on “Workshop/ Manufacturing Practices” is designed to cater the needs of young minds of 21 century. The AICTE model curriculum and National Education Policy has driven a new wave in the technical education. The textbook is designed not only to cater the need of the syllabus but also to look things in a different perspective. The Workshop is the place where the core of learning about different materials, equipment, tools and techniques takes place. Basically the workshop used to prepare the small components by hand tools. Sometimes they may be parts of the large machines or may may be parts for replacement/repairs. In this text book an attempt has been made to connect the conventional tools usage to advanced machine tools usage. The relevant practical examples are quoted to make the readers more comfortable with product and processes. The blooms taxonomy is fallowed in construction of each chapters and exercises. The objective and multiple questions with higher order thinking may help the readers to not only to face the semester end exam even they may help in competitive and other examinations.

### Salient Features:

1. Manufacturing Methods
2. CNC Machining, Additive manufacturing
3. Fitting operations & power tools
4. Electrical & Electronic
5. Carpentry
6. Plastic moulding, glass cutting
7. Metal casting
8. Welding (arc welding & gas welding), brazing

9. Laboratory experiments and models

10. Appendices

11. References

## Table Of Contents

---

- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Abbreviations and Symbols
- List of Figures
- List of Tables
- Guidelines for Teacher
- Guidelines for Students
- Part- A: Manufacturing Practices
  - Manufacturing Methods
  - CNC Machining, Additive manufacturing, Fitting
  - operations & power tools
  - Electrical & Electronic
  - Carpentry, Plastic moulding, glass cutting
  - Metal casting, welding (arc welding & gas welding), brazing
- Part- B: Workshop Practice Laboratory
- Appendices
- References

## Author

---

**Veerana D.K.**

The textbook on “Workshop/ Manufacturing Practices” is designed to cater the needs of young minds of 21 century. The AICTE model curriculum and National Education Policy has driven a new wave in the technical education. The textbook is designed not only to cater the need of the syllabus but also to look things in a different perspective. The Workshop is the place where the core of learning about different materials, equipment, tools and techniques takes place. Basically the workshop used to prepare the small components by hand tools. Sometimes they may be parts of the large machines or may be parts for replacement/repairs. In this text book an attempt has been made to connect the conventional tools usage to advanced machine tools usage. The relevant practical examples are quoted to make the readers more comfortable with product and processes. The blooms taxonomy is fallowed in construction of each chapters and exercises. The objective and multiple questions with higher order thinking may help the readers to not only to face the semester end exam even they may help in competitive and other examinations. Salient Features: I Manufacturing Methods I CNC Machining, Additive manufacturing I Fitting operations & power tools I Electrical & Electronic I Carpentry I Plastic moulding, glass cutting I Metal casting I Welding (arc welding & gas welding), brazing I Laboratory experiments and models I Appendices I References



## E-Commerce

**Author :** Gaurav Gupta, Sarika Gupta

**ISBN 13 :** 978-93-82609-54-4

**ISBN 10 :** 9382609547

**E-ISBN 13 :** 978-93-82609-54-4

**Edition :** 2

**Pages :** 350

**Type of book :** Physical

**Year :** 2026

**Language :** English

**Publisher :** Khanna Publishing House

**M.R.P :** Rs 550.00

**Categories :** [Computer Science Engineering,](#)  
[Book Store](#)

**Condition Type :** New

**Country Origin :** India

## Product Description

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Each chapter of the book begins with introduction explaining the need of the contents discussed in the chapter, Figures have been inserted at relevant places to help the reader to understand the concept clearly, Each chapter is followed by the points that provide a helpful way to recap all the topics covered in a chapter, Exercise in the form of Questions is added at the end of each chapter aimed at providing the in-depth understanding of the concepts learned, The end of the book contained solved university asked questions.

## Table Of Contents

---

- Introduction of E-Commerce
- Network Infrastructure for E-Commerce
- Mobile Commerce
- Security
- Firewalls
- Encryption Techniques
- Virtual Private Network
- Set Protocol
- E-Commerce Applications
- Implementation of E-commerce
- How to Use HTML :Question Bank
- Model Papers
- Previous Question Papers
- Index

## Author

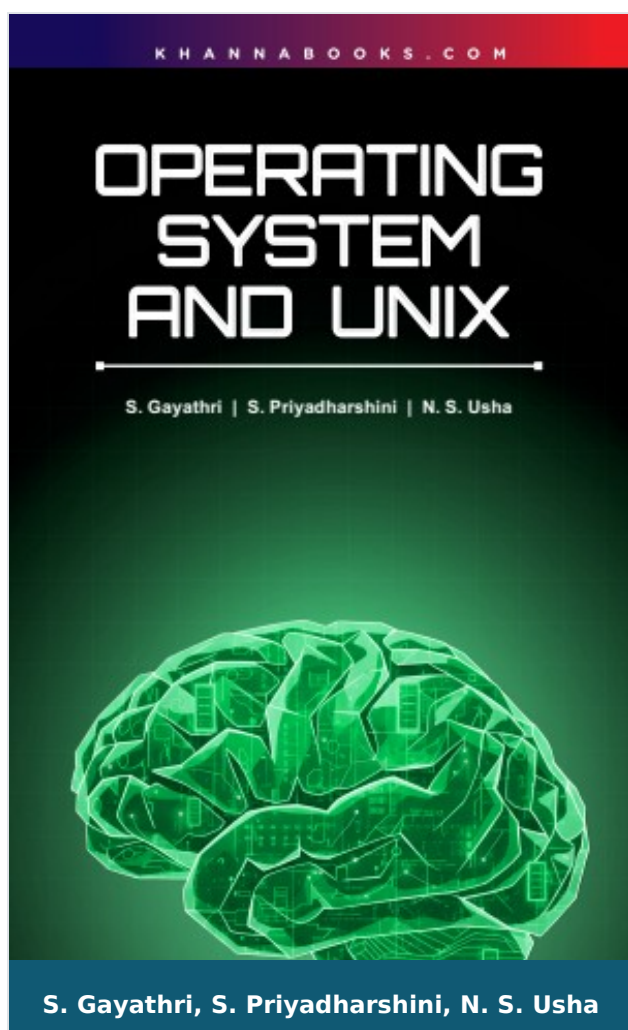
---

### Gaurav Gupta

Gaurav Gupta is currently working as Manager Client Services in an IT MNC. He has more than Nine years of corporate experience with different MNCs. He has published Research Papers in various international Journals and attended conferences at several states. His area of interest includes Server and Databases, Data Center technologies and IT infrastructure, Project Management, Marketing Automation and different enterprise software's, CRM, ERP etc.

### Sarika Gupta

Sarika Gupta Sarika Gupta is currently working as Assistant Professor in the Department of Computer Science and Engineering at Dronacharya College of Engineering, Greater Noida. She has more than six years of teaching and corporate experience. She has already published Research Papers in various international Journals and conferences of repute. Her area of interest and research includes AdHoc Network, Java, Object Oriented System and Soft Computing etc.



## Operating System and Unix

**Author :** S. Gayathri, S. Priyadarshini, N. S. Usha

**ISBN 13 :** 978-93-55388-90-2

**ISBN 10 :** 935538890X

**E-ISBN 13 :** 978-93-55388-90-2

**Edition :** First

**Pages :** 136

**Type of book :** Physical

**Year :** 2025

**Language :** English

**Publisher :** Khanna Publishing House

**M.R.P :** Rs 198.00

**Categories :** [New Arrivals](#), [Book Store](#), [Sathyabama Series](#)

**Condition Type :** New

**Country Origin :** India

## Product Description

---

### Operating System and Unix

The Operating System (OS) is the fundamental software that manages a computer's resources, making it the core of all modern computing. This book provides a comprehensive, two-part exploration of both the theoretical principles of operating systems and the practical application of the UNIX/Linux environment.

Starting with the bedrock of OS design, the book clarifies essential concepts like Resource Management, Process Management, Memory Management, and Security. It meticulously details how the OS handles multitasking, deadlocks, and various memory allocation techniques.

The second part transitions seamlessly into hands-on skills, focusing on the powerful and enduring UNIX system. Readers will master the UNIX file system structure, essential shell commands, and the art of Shell Scripting, including arithmetic expansion and floating-point calculations using tools like `bc` and `awk`. Whether you are a student, developer, or systems administrator, this book is the definitive resource for understanding how computers work and mastering the command-line tools that power the digital world.

### Salient Features:

- **Operating System Fundamentals:** In-depth coverage of OS Goals (Resource Management, Reliability, Performance Optimization) and the role of System Software versus Application Software.
- **Core Management Concepts:** Detailed units on Process Management (scheduling, threads, synchronization) and Memory Management (paging, segmentation, virtual memory).
- **Security and Deadlocks:** Clear explanation of system security features and mechanisms to prevent or handle deadlocks and starvation.

- **UNIX Mastery:** Comprehensive guide to the UNIX File System, Directory Structure, and mastering crucial shell commands for effective navigation and file manipulation.
- **Shell Scripting:** Practical, step-by-step instruction on Bash Shell Scripting, including Arithmetic Operations using `let` and `$(...)` and handling Floating-Point Arithmetic with `bc` and `awk`.
- **User Interaction:** Focus on the different ways users interact with the OS, from the command-line interface to the graphical user interface.
- **Ideal for:** Undergraduate and postgraduate students in Computer Science, and IT professionals seeking a robust understanding of both OS theory and practical UNIX command-line skills

## Table Of Contents

---

- Operating SYSTEMS
- Introduction to PROCESSES
- Synchronization and DEADLOCKS
- Memory MANAGEMENT and I/O Management
- Unix

## Author

---

**S. Gayathri**

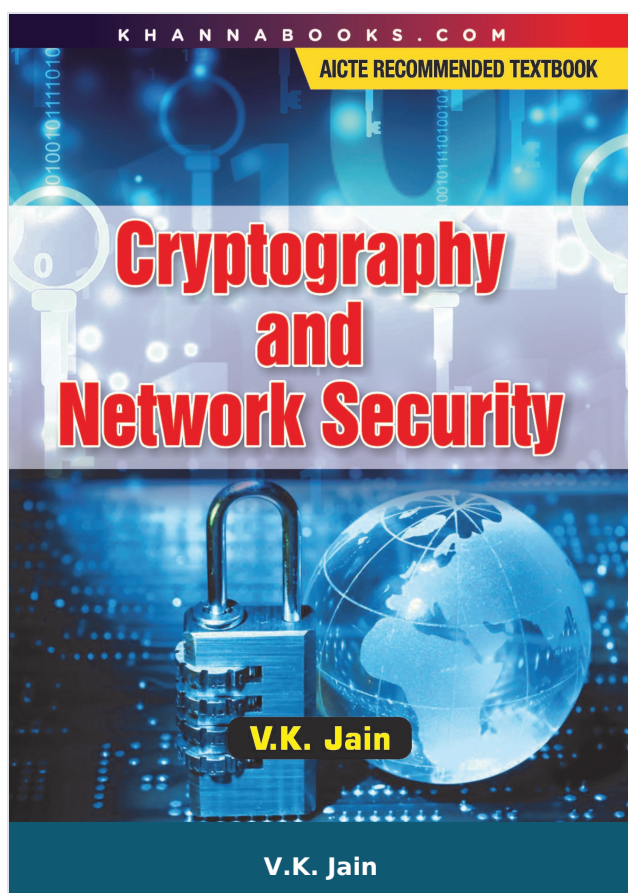
S. Gayathri,

**S. Priyadharshini**

S. Priyadharshini

**N. S. Usha**

N. S. Usha,



## Cryptography and Network Security

|                         |                                                                                                                                                                          |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Author :</b>         | V.K. Jain                                                                                                                                                                |
| <b>ISBN 13 :</b>        | 978-93-80016-80-1                                                                                                                                                        |
| <b>ISBN 10 :</b>        | 9380016808                                                                                                                                                               |
| <b>E-ISBN 13 :</b>      | 978-93-80016-80-1                                                                                                                                                        |
| <b>Edition :</b>        | First                                                                                                                                                                    |
| <b>Pages :</b>          | 604                                                                                                                                                                      |
| <b>Type of book :</b>   | Physical                                                                                                                                                                 |
| <b>Year :</b>           | 2025                                                                                                                                                                     |
| <b>Language :</b>       | English                                                                                                                                                                  |
| <b>Publisher :</b>      | Khanna Publishing House                                                                                                                                                  |
| <b>M.R.P :</b>          | Rs 625.00                                                                                                                                                                |
| <b>Categories :</b>     | <a href="#">Computer Science Engineering,</a><br><a href="#">UNIVERSITY RECOMMENDED,</a><br><a href="#">Computer Science Engineerings,</a><br><a href="#">Book Store</a> |
| <b>Condition Type :</b> | New                                                                                                                                                                      |
| <b>Country Origin :</b> | India                                                                                                                                                                    |

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## Product Description

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This book has been written keeping in mind syllabi of all Indian universities and optimized the contents of the book accordingly. These students are the book's primary audience. Cryptographic concepts are explained using diagrams to illustrate component relationships and data flows. At every step aim is to examine the relationship between the security measures and the vulnerabilities they address. This will guide readers in safely applying cryptographic techniques. This book is also intended for people who know very little about cryptography but need to make technical decisions about cryptographic security. many people face this situation when they need to transmit business data safely over the Internet. This often includes people responsible for the data, like business analysts and managers. as well as those who must install and maintain the protections, like information systems administrators and managers. This book requires no prior knowledge of cryptography or related mathematics. Descriptions of low-level crypto mechanisms focus on presenting the concepts instead of the details. This book is intended as a reference book for professional cryptographers, presenting the techniques and algorithms of greatest interest of the current practitioner, along with the supporting motivation and background material. It also provides a comprehensive source from which to learn cryptography, serving both students and instructors. In addition, the rigorous treatment, breadth, and extensive bibliographic material should make it an important reference for research professionals. While composing this book my intention was not to introduce a collection of new techniques and protocols, but rather to selectively present techniques from those currently available in the public domain.

## Table Of Contents

---

- Introduction to Cryptography and Network Security
- Basic Concepts in Data Encryption
- Model Block Cipher
- Groups, Ring and Field
- Public Key Cryptosystem and RSA
- Authentication
- Digital Signatures
- Authentication Application
- IP Security
- Web Security
- System Security
- Index

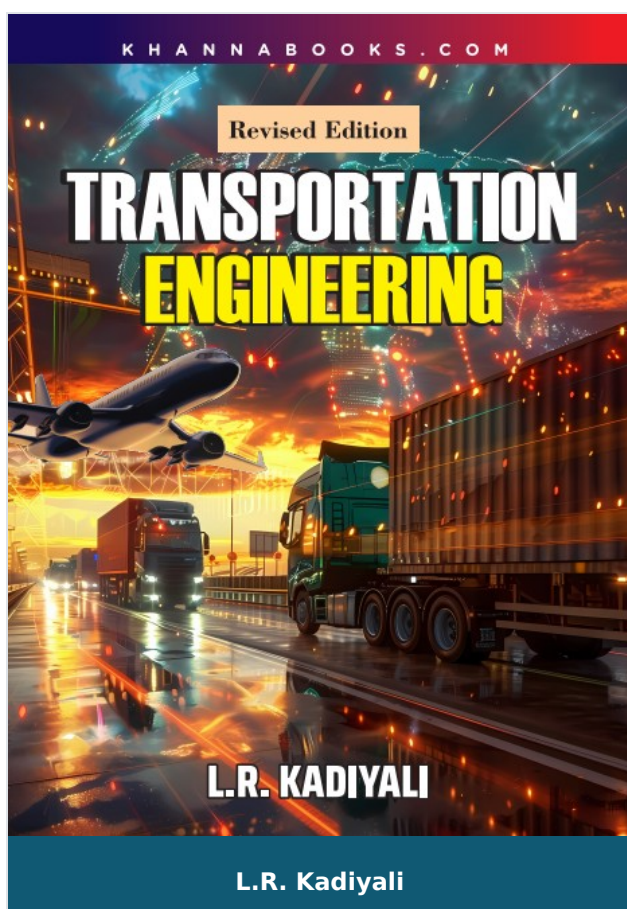
## Author

---

### V.K. Jain

Dr. V.K. Jain is a well known practical engineer who has authored more than 125 books on engineering, management and subjects related with computer science. He obtained degree in Electrical Engineering in 1966 from MACT (Maulana Azad College of Technology) Bhopal. He did M. Tech. in 1968 from MACT and HEL (Now Bharat Heavy Electricals) Bhopal in Design and Production of Heavy Electrical Equipments, an Industry Oriented course run under the sponsorship of UNESCO under Vikram University Ujjain in 1968. He was attached to Electronics Application Engineering Department of BHEL. He presented a thesis on ""Analysis of the performance of speed and excitation regulation System using fast acting integrator type AVR for a large Hydro-generator (15 MW). This

was concerned with studying power system from the viewpoint of electronic control systems (based on Nyquist Criteria) through Analog and Digital Computer at one of the premier Institution of India IIT (Indian Institue of Technology) Kanpur. He personally prepared digital computer program in FORTRAN IV as early as in year 1968 at IIT Kanpur and compiled it on IBM 7044 Main Frame Computer, The fastest Computer in India at that time. He joined CPWD as Electrical Engineer on 20.5.1968 on basis of All India Competitive Examination for Central Electrical Engineering Services (Now known as IES) through Union Public Service Commission of India and served CPWD for 35 years. After retirement he worked with M/s CP Kukreja as consultat engineer for nearly one and half years and at present working as Chief Consultant Engineer with M/s Hospitech Management Consultant Pvt. Limited WTC New Delhi and engaged in designing most modern E/M, Electronic services and IBMS in premier Medical colleges and Big Hospital systems including AIIMS at Raipur and Patna.



## Transportation Engineering

|                         |                                                                                                                                                                           |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Author :</b>         | L.R. Kadiyali                                                                                                                                                             |
| <b>ISBN 13 :</b>        | 978-93-82609-85-8                                                                                                                                                         |
| <b>ISBN 10 :</b>        | 9382609857                                                                                                                                                                |
| <b>E-ISBN 13 :</b>      | 978-93-82609-85-8                                                                                                                                                         |
| <b>Edition :</b>        | First                                                                                                                                                                     |
| <b>Pages :</b>          | 408                                                                                                                                                                       |
| <b>Type of book :</b>   | Physical                                                                                                                                                                  |
| <b>Year :</b>           | 2026                                                                                                                                                                      |
| <b>Language :</b>       | English                                                                                                                                                                   |
| <b>Publisher :</b>      | Khanna Publishing House                                                                                                                                                   |
| <b>M.R.P :</b>          | Rs 450.00                                                                                                                                                                 |
| <b>Categories :</b>     | <a href="#">Mechanical Engineering,</a><br><a href="#">UNIVERSITY RECOMMENDED,</a><br><a href="#">Mechanical Engineering, Book</a><br><a href="#">Store, Best Sellers</a> |
| <b>Condition Type :</b> | New                                                                                                                                                                       |
| <b>Country Origin :</b> | India                                                                                                                                                                     |

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## Product Description

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India's Transport System has several deficiencies such as inadequate capacity, poor safety record, emission of pollutants and outmoded technology. But as the economy is poised for a big growth in the coming years transportation engineers will have to come up with innovative ideas.

The book addresses these issues and it is hoped that the engineering students studying transportation engineering will have a clear idea of the problems involved and how they transportation engineering will have a clear idea of the problems involved and how they can be overcome in their professional career. This book has been designed keeping in mind the latest syllabi of all major Indian Universities.

## Table Of Contents

---

- SECTION-1: TRANSPORTATION SYSTEMS AND PLANNING
  - Introduction
  - Role of Transport in Society
  - Modes of Transport and Criteria for Choice
  - Transport Planning
- SECTION-2: HIGHWAY ENGINEERING
  - History of Growth of Highways
  - Development of Roads in India After Independence
  - Geometric Design
  - Surveys, Investigations and Project Preparation
  - Embankment Design and Construction
  - Highway Drainage
  - Cross Drainage Structures
  - Types of Pavements and Factors Governing Pavement Design
  - Design of Flexible Pavement
  - Design of Rigid Pavements
  - Pavement Materials
  - Construction of Pavements
  - Maintenance of Highways
  - Use of Geosynthetics in Highway Engineering
  - Urban Roads
  - Hill Roads
  - Road in Desert Areas

- Toll Roads
- Quality Assurance
- Highway Administration and Finance
- Traffic Engineering
- SECTION-3: RAILWAY ENGINEERING
- Introduction to Railway Engineering
- Railway Technology
- Role of Railways
- History of Growth of Railways in India
- Surveys and Project Preparation
- Geometric Design of Railway Track
- The Permanent Way
- Point and Crossings
- Signalling and Traffic Control
- Traction and traction Resistance
- Stations, Yards and Station Equipment
- Construction of a Railway Line
- Maintenance of a Railway Line
- Track Renewal
- Bridges and Tunnels
- Rail Accidents
- Modern Technological Advances
- SECTION-4: AIRPORT ENGINEERING
- Role of Air Transportation
- SECTION-5: CONTINUOUS FLOW SYSTEMS

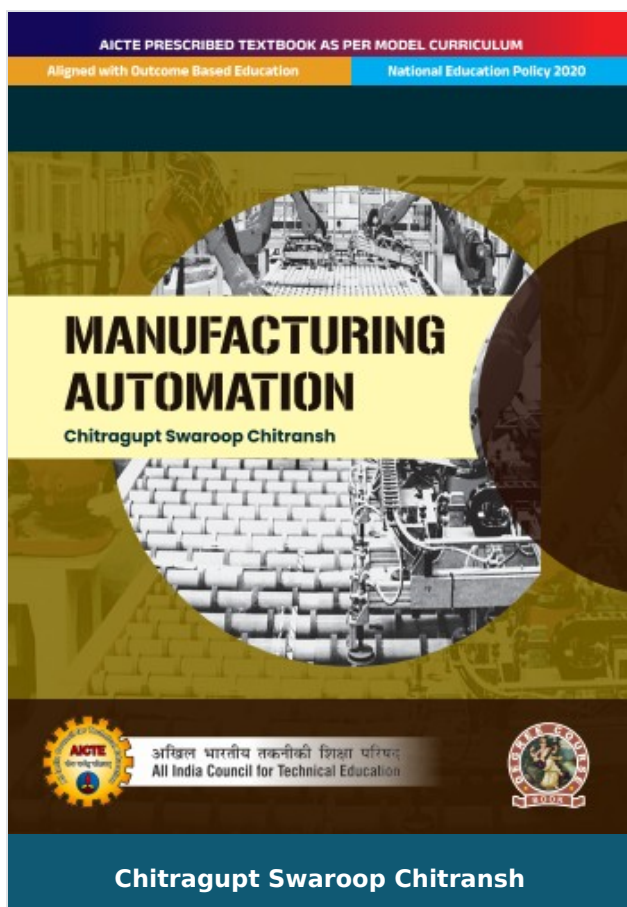
- Pipe Line Transportation
- Aerial Ropeway
- Belt Conveyors
- SECTION-6: WATER TRANSPORT
- Water Transport An Overview
- Planning for Water Transportation Facilities
- Harbours
- Lock Entrance
- Docks
- Transit Sheds, Warehouses and Cargo Handling Facilities
- Inland Water Transport
- SECTION-7: MULTI-MODAL TRANSPORT
- Multi-Modal Transport

## Author

---

### **L.R. Kadiyali**

L.R. Kadiyali Dr. L.R.Kadiyali is B.E.(Hons.), from Bombay and pursued Ph.D. from Kakatiya University. He has done P.G. diploma in Highway and Traffic Engineering from Newcastle-Upon-Tyne. He is Formerly Chief Engineer, (Roads Wing), Ministry of Road Transport & Highways, New Delhi and Study Director, Road User Cost Study, Central Road Research Institute New Delhi.



## Manufacturing Automation

**Author :** Chitragupt Swaroop Chitransh

**ISBN 13 :** 978-93-55388-41-4

**ISBN 10 :** 9355388411

**E-ISBN 13 :** 978-93-55388-41-4

**Edition :** First

**Pages :** 216

**Type of book :** Physical

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**Publisher :** Khanna Publishing House

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[English Books, Book Store](#)

**Condition Type :** New

**Country Origin :** India

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## Product Description

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### Manufacturing Automation

This book gives detailed description about automation strategies, types and applications used in manufacturing sector. Automated flow lines, factory automation, automated assembly systems, machine and process automation, advanced automation trends make this book a perfect offering on the subject.

#### Salient Features:

- Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR code for E-resources, QR code for the use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in both with balanced and chronological manner.
- Figures, tables and software screen shots are inserted to improve clarity of the topics.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.

## Table Of Contents

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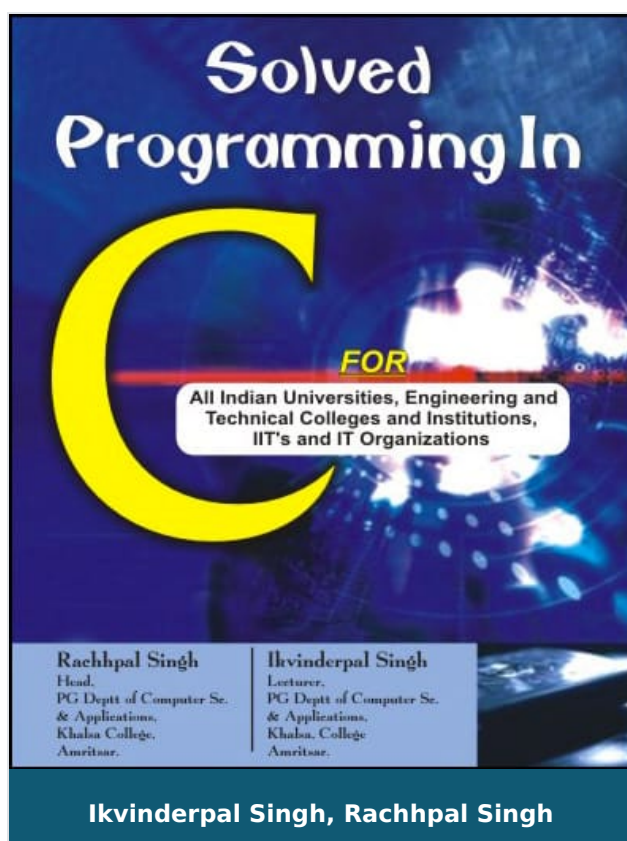
- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Guidelines For Teachers
- Guidelines For Students
- List Of Figures
- Introduction
- Machine and process automation
- Automated Assembly systems
- Factory automation
- Automation tools and techniques
- Advanced Automation trends
- Examples and case studies
- Unit summary
- Solved questions
- Exercises
- Multiple choice questions (MCQs)
- References
- CO and PO Attainment Table
- Index

## Author

---

**Chitragupt Swaroop Chitransh**

Dr. Chitragupt Swaroop Chitransh Assistant Professor Department of Mechanical Engineering IMS Engineering College



## Solved Programming in C

**Author :** Ikvinderpal Singh, Rachhpal Singh

**ISBN 13 :** 978-93-80016-19-1

**ISBN 10 :** 9380016190

**E-ISBN 13 :** 978-93-80016-19-1

**Edition :** First

**Pages :** 520

**Type of book :** Physical

**Year :** 2012

**Language :** English

**Publisher :** Khanna Publishing House

**M.R.P :** Rs 350.00

**Categories :** [Computer Science Engineering, OBJECTIVE TYPE BOOKS, Book Store](#)

**Condition Type :** New

**Country Origin :** India

## Product Description

---

This book blends concepts with real practical applications. Simple and lucid style trains the reader not only in developing application programs but also familiarizes with system level programming. Contains about 1600 solved simple as well as complex programming problems. Include real life solved examples. Contains program regarding all header files functions used in C programming like studies math etc. All macro functions are covered with suitable programs macro basic, macro constant, macro string etc. Contain all data types programming descriptions. All operations are explaining in the form of simple programs. It covers all function of console I/O and file I/O. Control statements, array, strings, functions, pointers, dynamic memory allocation is described using simple as well as system level programming. Containing graphic programming.

## Table Of Contents

---

- Getting Started With C
- All Data Types
- Operators
- Console Input/Output
- Control Statements
- Array
- Strings
- Functions
- Pointers
- Dynamic Memory Allocation
- Structure and Union
- Files
- Macros in C
- Header Files in C
- Graphics Programming

## Author

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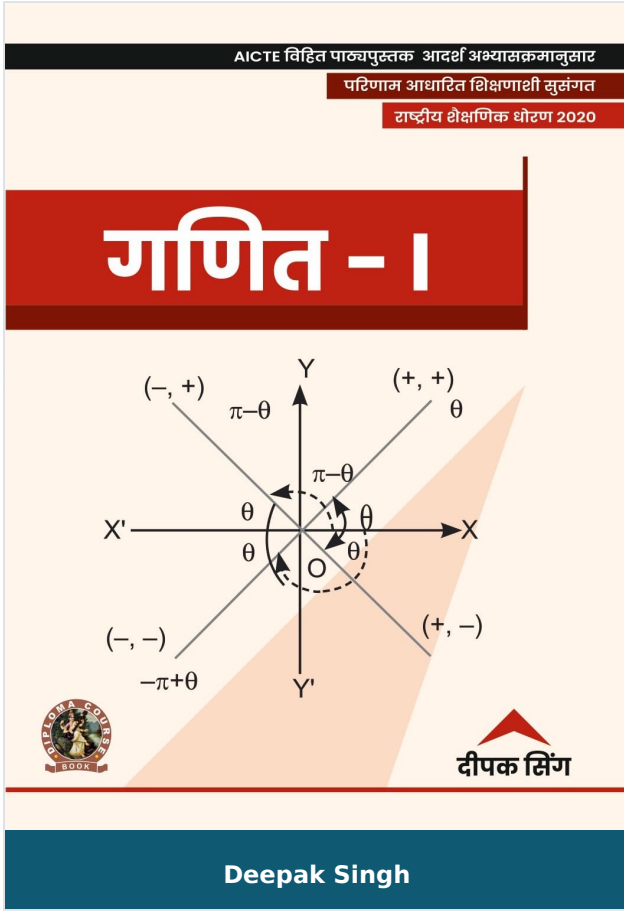
### **Ikvinderpal Singh**

Dr. Ikvinderpal Singh is an Assistant Professor at Trai Shatabdi Guru Gobind Singh Khalsa college Amritsar, bringing 17+ years of academic leadership and research experience to the field of computer science. A Gold Medalist in B.Sc. IT, with an MCA (Distinction) and a Ph.D. in Neural Networks and Image Processing, he is known for blending rigorous research with practical innovation. A prolific academic creator, he has authored 37 books, published 82+ research papers, and designed 100+ industry-aligned skill-development

courses. His expertise extends to doctoral evaluation, supervision, and active participation on 100+ editorial and review boards worldwide.

**Rachhpal Singh**

Rachhpal Singh is head of P.G. Dept. Computer Science & Applications, Khalsa College, Amritsar which is a premier institute in North India. He obtained his MCA from thapar Institute of Engineering and Technology, patiala. He has over fifteen years of teaching experience to teach post graduate classes. He is an international author of the world level and his other areas of interest include software engineering, parallel processing system level programming.



## Mathematics-I

|                         |                                                                                                                     |
|-------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>Author :</b>         | Deepak Singh                                                                                                        |
| <b>ISBN 13 :</b>        | 978-93-55380-45-6                                                                                                   |
| <b>ISBN 10 :</b>        | 9355380453                                                                                                          |
| <b>E-ISBN 13 :</b>      | 978-93-55380-45-6                                                                                                   |
| <b>Edition :</b>        | First                                                                                                               |
| <b>Pages :</b>          | 188                                                                                                                 |
| <b>Type of book :</b>   | Physical                                                                                                            |
| <b>Year :</b>           | 2025                                                                                                                |
| <b>Language :</b>       | English                                                                                                             |
| <b>Publisher :</b>      | Khanna Publishing House                                                                                             |
| <b>M.R.P :</b>          | Rs 395.00                                                                                                           |
| <b>Categories :</b>     | <a href="#">AICTE Prescribed Textbooks,</a><br><a href="#">Marathi Books, Book Store,</a><br><a href="#">Ebooks</a> |
| <b>Condition Type :</b> | New                                                                                                                 |
| <b>Country Origin :</b> | India                                                                                                               |

## Product Description

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“Mathematics-I” is included as a paper for the first year Diploma program. Syllabus of this book is strictly aligned as per model curriculum of AICTE, and academic content is combined with the concept of outcome-based education.

Book cover five Units Trigonometry, Functions and Limit, Differential Calculus, Complex numbers and partial Fraction, Permutation and Combination and Binomial Theorem. In every unit each topic is written in easy and lucid manner. A set of exercise at the end of each unit is clubbed to test the student’s comprehension.

Some salient features of the book

- Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.
- Book provides lots of real-world applications, interesting facts, QR Code for E-resources, mini projects, curiosity topics, sample specification table etc.
- Students and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables and mathematical equations are inserted to improve clarity of the topics.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- Comprehensive synopsis of formulae for a quick revision of the basic principles.

## Table Of Contents

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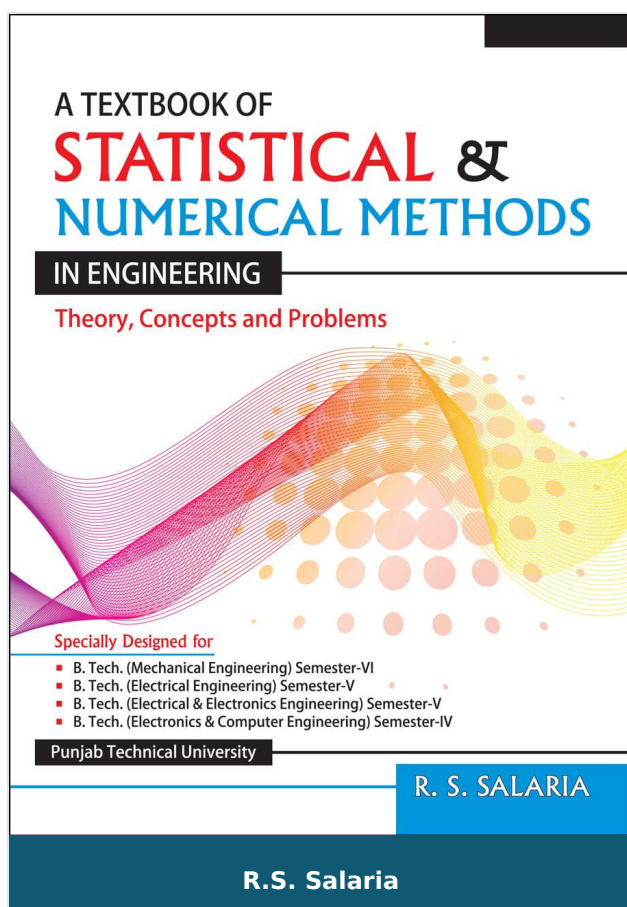
- Trigonometry
- Functions and Limit
- Differential Calculus
- Complex Numbers and Partial Fraction
- Permutation and Combination, Binomial Theorem
- Appendices
- References for Further Learning
- CO and PO attainment Table
- Index

## Author

---

**Deepak Singh**

Deepak Singh



## A Textbook of Statistical & Numerical Methods in Engineering

|                         |                                                                                                                     |
|-------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>Author :</b>         | R.S. Salaria                                                                                                        |
| <b>ISBN 13 :</b>        | 978-93-82609-95-7                                                                                                   |
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## Product Description

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The subject of A Textbook of Statistical & Numerical Methods is one of the courses in the curriculum of almost all universities and other institutes offering undergraduate and postgraduate courses in Engineering and Physical Science.

The Book is designed to serve as a textbook for the students of Bachelor of Technology in Mechanical Engineering, Electrical Engineering, Electrical & Electronics Engineering and Electronics & Computer Engineering of Punjab Technical University. Even the Practicing Engineers and researchers will also find it useful as reference book.

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## Table Of Contents

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- Data, Its Arrangements and Measures
- Probability and Probability Distributions
- Sampling and Sampling Distributions
- Errors in Numerical Calculations
- Solution of Algebraic and Transcendental Equations
- Interpolation Methods
- Curve Fitting
- Numerical Differentiation
- Numerical Integration
- Solution of Linear Systems of Equations
- Numerical Solution of Ordinary & Partial Differential Equations
- Appendix A: Listing of Selected Programs in C++
- Appendix B: Statistical Tables

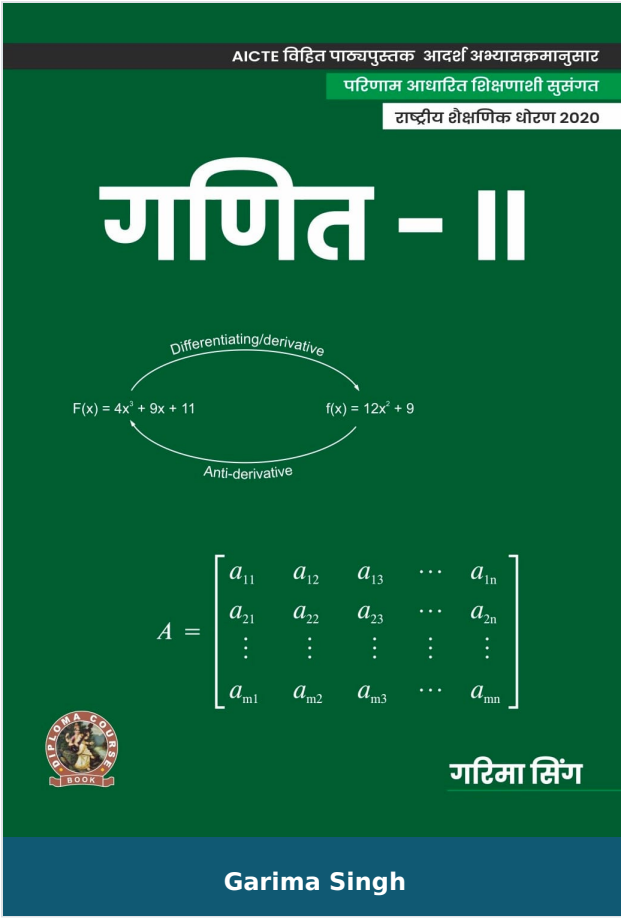
## Author

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### **R.S. Salaria**

Prof. R.S. Salaria is a superior teacher, a prolific author and a great motivator. He is an alumnus of IIT, Delhi. He is a Certified Software Quality professional by Ministry of Information Technology, Govt. of India: Sun Certified Programmer as well as Sun Certified Trainer by SUN Microsystems. He is a life member of computer society of India, Mumbai: Institution of Electronics and Telecommunication Engineers, New Delhi: Indian Society for Technical Education, New Delhi: Punjab Academy of Sciences, Patiala. Presently, he is talking initiatives to Sensitize the citizens of this great country about their fundamental responsibilities towards society and seeking their contributions to make the society a

wonderful place for happy and peaceful living. </p>



## Mathematics-II

|                         |                                                                                                                     |
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“Mathematics-II” is a Compulsory paper for the first year students of Diploma engineering courses (common to all branches). Syllabus of this book is strictly aligned to the model curriculum of AICTE. And academic content is amalgamated with the concept of outcome based education. Apart from diploma it is useful for all students who are interested in basic /elementary mathematics and competitive examinations.

Book covers seven topics- Determinants, Matrices, Integral Calculus and it's applications. Co-ordinate Geometry and it's applications, vectors and it's applications, Differential equations. Basic of MATLAB.

Each topic is written in an easy and lucid manner with a holistic view. There has been deliberated attempt to keep the number of pages in the book minimum without compromising with the matter. Every chapter contains a set of exercises at the end of each unit to test the student's comprehension.

Some salient features of the book:

1. For direct recapitulation of main concepts, formulae and results a brief summary of each unit has been given.
2. Objective questions and subjective questions are given for practice of students after every unit.
3. Content of the book is aligned with the mapping of Course Outcomes, Programs Outcomes and unit Outcomes.
4. Apart from the theory explanation and solved examples book provides for mini projects, activities, fun facts, QR codes, case studies, video resources etc.
5. The text has been supplemented with notes, remarks, remember sections within grey boxes.

6. Student and teacher centric subject materials are included in the book in a balanced manner.
7. Real life applications are inserted to improve clarity of this topics.
8. Know more section has been introduced which constitutes of additional information related to the topic.
9. Check-out section has been introduced so as to active the curiosity part of the student by correlating all the topics studied in this book with MATLAB.
10. At the end of each unit. An excerpt related to eminent Indian Mathematicians is given so as to make .
11. Student have a glimpse of the rich Indian heritage, especially in the field of mathematics.

## Table Of Contents

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- Foreword,
- Acknowledgement,
- Preface,
- Outcome Based Educations,
- Course Outcomes,
- Abbreviations and Symbols,
- List of Figures,
- Guidelines for Teachers,
- Guidelines for Students
- Determinants and Matrices
- Integral Calculus
- Co-ordinate Geometry
- Vector Algebra
- Differential Equations
- Appendices & Annexures

## Author

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**Garima Singh**

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