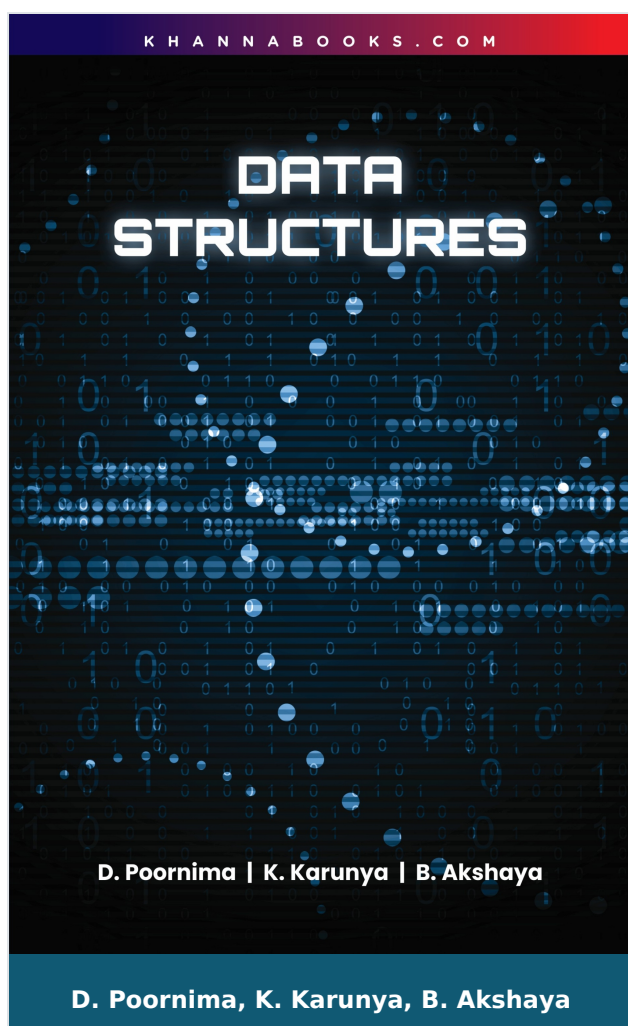




Data Structures

Author :	D. Poornima, K. Karunya, B. Akshaya
ISBN 13 :	978-93-55385-39-0
ISBN 10 :	9355385390
E-ISBN 13 :	978-93-55385-39-0
Edition :	First
Pages :	216
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 298.00
Categories :	Computer Science Engineering, New Arrivals, Book Store, Sathyabama Series
Condition Type :	New
Country Origin :	India

Product Description

This comprehensive textbook offers an indispensable foundation in data structures, the core discipline for efficient computing and algorithm design. It is explicitly designed to empower students, software developers, and computer science professionals with the ability to organize, manage, and process data optimally, thereby reducing computational overhead and enhancing application performance.

The book systematically guides readers through fundamental concepts, beginning with linear structures like Arrays, Linked Lists, Stacks, and Queues, and progresses to complex, non-linear structures such as Trees and Graphs. A strong emphasis is placed on the dual goals of reducing time complexity and optimizing memory storage, which are vital for developing modern, scalable software. Readers will gain practical proficiency through units dedicated to Search and Sorting Techniques and critical graph algorithms like Dijkstra's and Minimum Spanning Trees. By blending academic rigor with extensive real-world Case Studies and practical programming examples in C, this text ensures that learners not only understand how these structures work, but also why they are the backbone of modern applications in areas like databases, AI, and network optimization.

Salient Features:

- **Fundamental Concepts:** Provides a clear introduction to data structures, covering classifications (linear vs. non-linear) and the core need for optimizing both time and space complexity.
- **Advanced Structures:** Thoroughly covers complex, non-linear structures like Binary Trees, BSTs (Binary Search Trees), and even AVL Trees, detailing their implementation and use in storage and retrieval.
- **Graph Theory:** Explores Graphs with depth, covering representation using Adjacency Matrix and List, and essential traversals like Breadth-First Search (BFS) and Depth-First

Search (DFS).

- **Pathfinding Algorithms:** Dedicated focus on practical solutions with algorithms for Minimum Spanning Trees (Kruskal's/Prim's) and Shortest Paths (Dijkstra's, Bellman-Ford, Floyd-Warshall).
- **Algorithm Analysis:** Offers a comprehensive unit on Search and Sorting Techniques (Quick Sort, Merge Sort, Heap Sort), with detailed analysis comparing the efficiency of various algorithms.
- **Practical Coding:** Includes numerous Solved Problems and C programming code examples for all major operations (insertion, deletion, traversal), enabling hands-on implementation skills.
- **Real-World Applications:** Features focused Case Studies throughout, illustrating how structures like Queues and Trees are utilized in practical scenarios such as hospital queue optimization and network routing.
- **ICT Integration:** Recommends specific digital tools, including online visualizers (like VisuAlgo) and competitive programming platforms (like LeetCode), to enhance interactive and application-based learning.

Table Of Contents

- Introduction to Data Structure
- Stack and Queue
- Tree
- Graph
- Search and Sorting Techniques

Author

D. Poornima

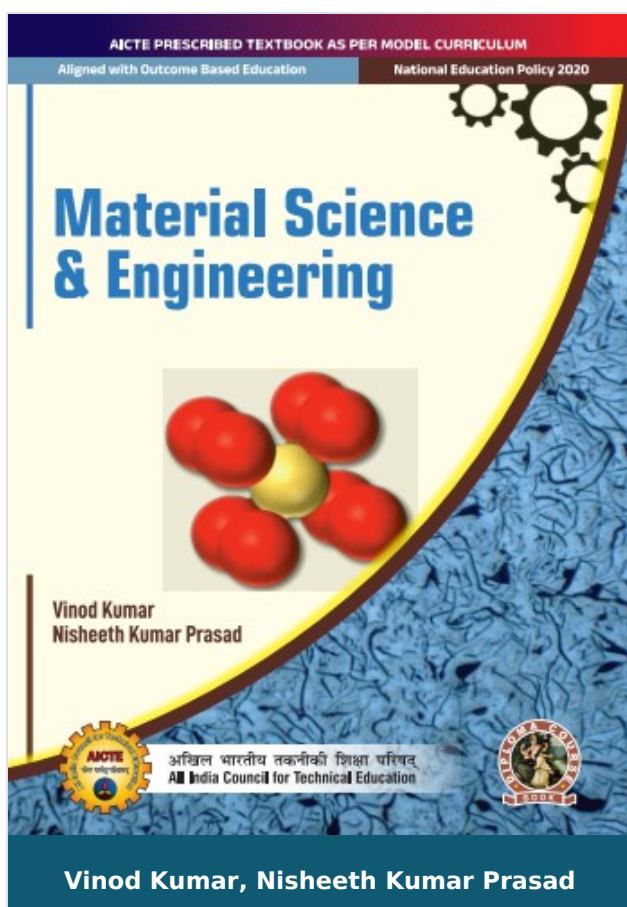
D. Poornima

K. Karunya

K. Karunya

B. Akshaya

B. Akshaya



Material Science & Engineering

Author : Vinod Kumar, Nisheeth Kumar Prasad

ISBN 13 : 978-93-55383-87-7

ISBN 10 : 9355383878

E-ISBN 13 : 978-93-55383-87-7

Edition : First

Pages : 192

Type of book : Physical

Year : 2026

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 358.00

Categories : [AICTE Prescribed Textbooks,](#)
[English Books, Book Store](#)

Condition Type : New

Country Origin : India

Product Description

Material Science & Engineering

This comprehensive textbook meticulously navigates through the foundational principles of atomic structures, phase diagrams, materials properties of ferrous and non-ferrous alloys, failure analysis and various materials testing methods, and surface engineering of metallic materials.

Key contribution from India in various section of material engineering has also been included at appropriate place to provide due credit to our Indian knowledge system. Every chapter includes not only the summary at the end of the chapter, but also relevant exercise problems to understand and explore the complex integration of materials, their behavior under diverse conditions, and the methodologies shaping their design and industrial utilization. Finally, this book will equip students with the knowledge of material science and engineering who will be tomorrow's engineers, and backbone of our industries.

Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units 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 use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.

- Apart from essential information a 'know more' section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- Solved and unsolved problems including numerical examples are solved with systematic steps.

Table Of Contents

- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Guidelines for Teachers
- Guidelines for Students
- Abbreviations and Symbols
- List of Figures
- List of Tables
- Crystal Structures and Bonds
- Phase Diagrams, Ferrous metals, and their Alloys
- Non-Ferrous Metals and Their Alloys
- Failure Analysis and Testing of Materials.
- Corrosion and Surface Engineering
- CO and PO Attainment Table
- Index

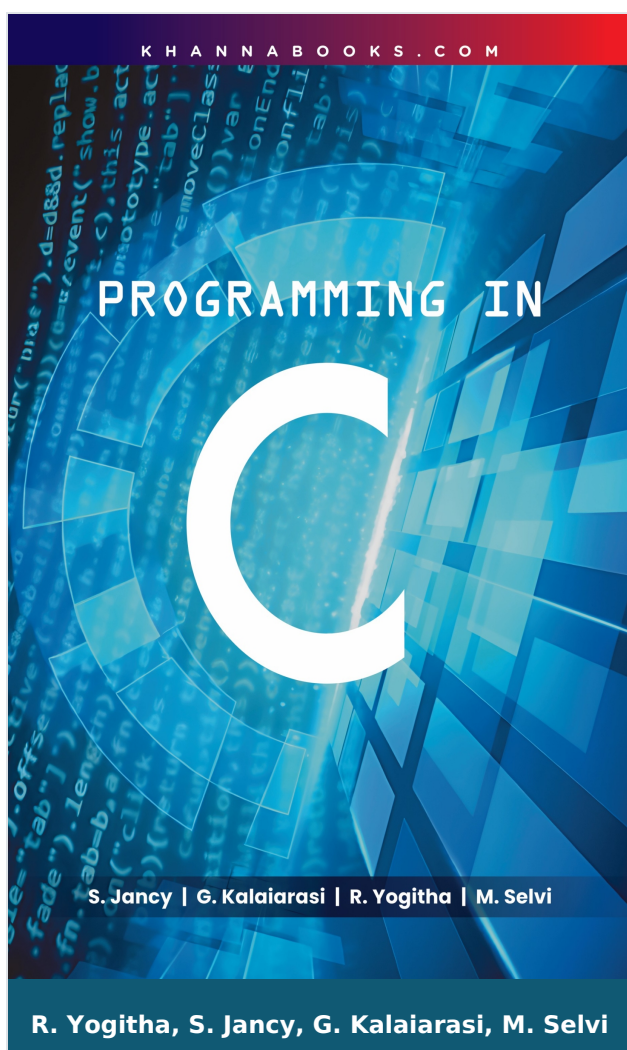
Author

Vinod Kumar

Dr. Vinod Kumar Assistant Professor and Former Head, Department of Metallurgical Engineering and Materials Science, IIT Indore, Simrol, Khandwa Road, Indore -453552, Madhya Pradesh Dr.

Nisheeth Kumar Prasad

Dr. Nisheeth Kumar Prasad Assistant Professor, Department of Metallurgical Engineering and Materials Science, IIT Indore, Simrol, Khandwa Road, Indore-453552.



Programming in C

Author : R. Yogitha, S. Jancy, G. Kalaiarasi,
M. Selvi

ISBN 13 : 978-93-55384-73-7

ISBN 10 : 9355384734

E-ISBN 13 : 978-93-55384-73-7

Edition : First

Pages : 158

Type of book : Physical

Year : 2026

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 248.00

Categories : [Computer Science Engineering,](#)
[New Arrivals, Book Store,](#)
[Sathyabama Series](#)

Condition Type : New

Country Origin : India

Product Description

This book, PROGRAMMING IN C, serves as an essential, comprehensive resource for mastering the C programming language, grounded in the foundational principles of computer science. The core theme is the seamless synergy between algorithmic problem-solving and practical, efficient C implementation. It begins by establishing a robust understanding of computational fundamentals, detailing the evolution of programming languages, and exploring key system components like Hardware, Software, Processor, and Memory.

The book's purpose is to mold readers into effective computational thinkers. It meticulously guides users through the art of problem-solving using structured techniques like Algorithms, Flowcharts, and Pseudocode. Crucially, it dedicates significant attention to measuring program performance through Time and Space Complexity (Big O Notation), enabling students to write code that is not only correct but also scalable and optimized.

Readers will gain mastery over the C program structure, fundamental data types, operators, and advanced concepts such as Modular Programming with Functions (including recursion and call-by-reference). Key data structures like Arrays, Strings, Pointers, and Structures are covered in depth. The target audience includes undergraduate students, aspiring software developers, and researchers who require a robust, hands-on, and efficiency-focused guide to system-level programming and computational logic.

Salient Features:

- **Fundamental Computing Overview:** The book starts with the basics of computer systems, covering Hardware, Software, Processor, and Memory, establishing a strong foundation before diving into coding.

- **Algorithmic Mastery:** Teaches problem-solving using Algorithms, Flowcharts, and Pseudocode, acting as a blueprint for translating logical steps into clean, efficient code.
- **Efficiency Analysis:** Dedicated coverage of Time and Space Complexity (Big O Notation) ensures students learn to analyze algorithm efficiency and optimize programs for scalability and speed.
- **Modular Programming:** Master code organization using Functions (user-defined and library), covering concepts like parameter passing (Pass by Value/Reference) and advanced techniques like Recursion.
- **Control Flow Logic:** Clear explanations and examples of Decision-Making (if-else, switch) and Looping (for, while, do-while) statements, enabling the creation of dynamic and interactive programs.
- **Essential Data Structures:** Comprehensive units on managing data using Arrays (1D and Multi-dimensional), Strings, Pointers, and powerful heterogeneous containers like Structures and Unions.
- **Hands-On Learning:** Features multiple fully-coded Case Studies and Exercises on practical applications, including sorting, searching, calculating prime numbers, and building a scientific calculator.

Table Of Contents

- Bits and Bytes in Computing
- C: Math Behind Coding
- C: magic Behind Instant Outputs
- Storing Group of Homogeneous Elements: Arrays
- Storing Group of Heterogeneous Elements: Structure

Author

R. Yogitha

R. Yogitha Associate Professor, Dept of CSE, Sathyabama Institute of Science and Technology

S. Jancy

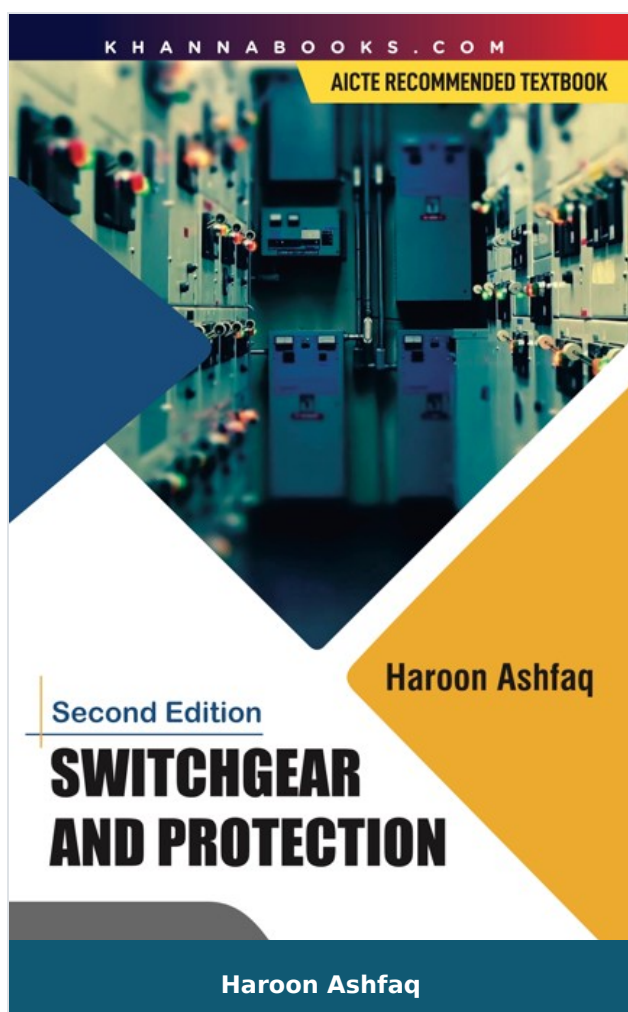
S. Jancy

G. Kalaiarasi

G. Kalaiarasi

M. Selvi

M. Selvi



Switchgear and Protection

Author :	Haroon Ashfaq
ISBN 13 :	978-93-80016-07-8
ISBN 10 :	9380016077
E-ISBN 13 :	978-93-80016-07-8
Edition :	Second
Pages :	244
Type of book :	Physical
Year :	2024
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 399.00
Categories :	Electrical, Electronics & Communication Engineering, UNIVERSITY RECOMMENDED, Electrical, Electronics & Communication Engineering, Book Store
Condition Type :	New
Country Origin :	India

Product Description

This book is intended to serve as a textbook for course 'switchgear and protection' for B. Tech/B.E. Degree students of Electrical Engineering. It will also serve as a text reference for the students of diploma in electrical engineering. The common topics included in the syllabi of almost all engineering institutions in India are covered in this book.

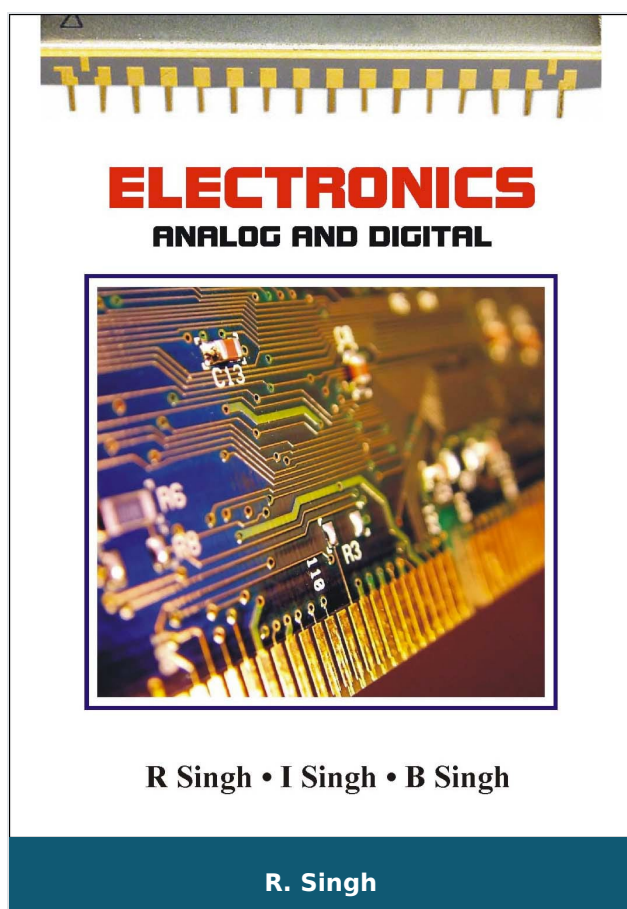
Table Of Contents

- Protection Systems
- Electromagnetic & Electro-Thermal Relays
- Static Relays
- Over Current Protection
- Distance Protection
- Transformer Protection
- Generator and Motor Protection
- Transmission Line and Busbar Protection
- System Neutral Grounding
- Over voltage Protection
- Circuit Breaking
- Circuit Breakers

Author

Haroon Ashfaq

Haroon Ashfaq is Assistant Professor, Department of Electrical Engineering, Jamia Millia Islamia, New Delhi. He is did his B.Tech in Electrical Engineering, M.Tech in Power Systems & Drives and has a doctorate in Electric Drives from Aligarh Muslim University, Aligarh. He has co-authored successful books which includes Network Analysis & Synthesis. He also has several international and national research publications to his credit.



Electronics Analog and Digital

Author :	R. Singh
ISBN 13 :	978-93-80016-95-5
ISBN 10 :	9380016956
E-ISBN 13 :	978-93-80016-95-5
Edition :	1
Pages :	672
Type of book :	Physical
Year :	2010
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 350.00
Categories :	Electrical, Electronics & Communication Engineering, Book Store
Condition Type :	New
Country Origin :	India

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Product Description

Written with the beginner in mind, this book provides an exceptionally clear and precise detail of electronics. Its approach is explanatory and language is lucid and communicable. Analog and digital electronics described with the help of its circuit designs, pictorial representation and implementation to have clear ideas. Modern aspects of electronics have been introduced from the first principles and discussed in an easy manner so that a beginner can grasp the analog and digital electronics. Each chapter contains solved example problems and exercise problems.

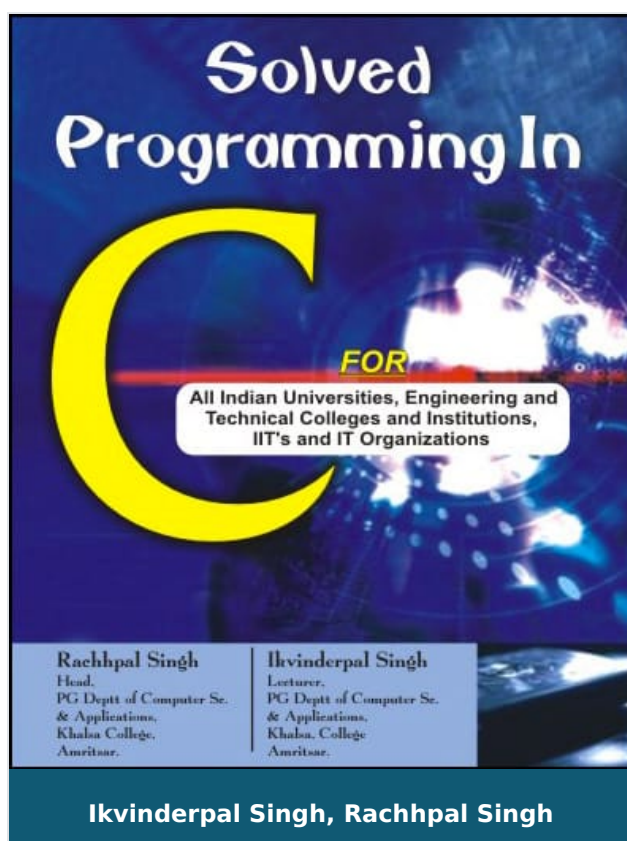
Table Of Contents

- Introduction to Electronics
- Semiconductor Physics
- Semiconductor Diodes
- Rectifiers
- Transistor
- JFET and MOSFET
- Network Theorems and Amplifiers
- H-Parameters and Transformations
- Number System and Codes
- Logic Gates
- Boolean Algebra
- Karanaugh Maps
- Error Detection and Correction Codes
- Combinational Circuits
- Flip Flops and Timing Circuits
- Counters
- Registers
- Semiconductor Memories
- ADC DAC and Interfacing
- Logic Families

Author

R. Singh

R. Singh "R Singh, MCA is equipped with an extraordinary calibre and appreciable academic potency. He has teaching experience of nearly twenty years. He has authored ten books on various complex topics of computer science. He has already submitted his Ph.D. thesis in the field of system simulation. His other areas of interest include Software Engineering, Data Structures and Information Systems. "



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

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.



Applied Physics - I (with Lab Manual)

Author :	V. K. Yadav, Mina Talati
ISBN 13 :	978-93-55381-80-4
ISBN 10 :	9355381808
E-ISBN 13 :	978-93-55381-80-4
Edition :	1
Pages :	288
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 295.00
Categories :	AICTE Prescribed Textbooks, Book Store, Ebooks, Malayalam Books
Condition Type :	New
Country Origin :	India

Product Description

“Applied Physic-I” is a compulsory paper for the first year Diploma course in Engineering & Technology. Syllabus of this books is strictly aligned as per model curriculum of AICTE, and academic content is amalgamated with the concepts of outcome-based education.

Book covers six topics- Physical World, Units and Measurements; Force and Motion; Work, Power and Energy; Rotational Motion; Properties of Matter; Heat and Thermometry. Each topic is written in easy and lucid manner. Every chapter contains a set of exercise at the end of each unit to test the student’s comprehension.

Some salient features of the book:

1. Content of the book is aligned with the mapping of Course Outcome, Programs Outcomes and Unit Outcomes.
2. Book provides lots of interested facts, QR Code for E-resources, QR Code for use of ICT etc.
3. Students and teacher centric subject materials are included in book with balanced and chronological manner.
4. Figures and tables are inserted to improve clarity of the topics.
5. Short questions, objective questions and long answer exercises of different difficulty levels are given for practice after every chapter.
6. Solved numerical examples are provided with systematic steps in each chapter followed by numerical exercises with hints.

Table Of Contents

- Physical World, Units and Measurements.
- Force and Motion.
- Work, Power and energy.
- Rotational Motion.
- Properties of Matter.
- heat and Thermometer.
- Annexes
- Appendices
- Index

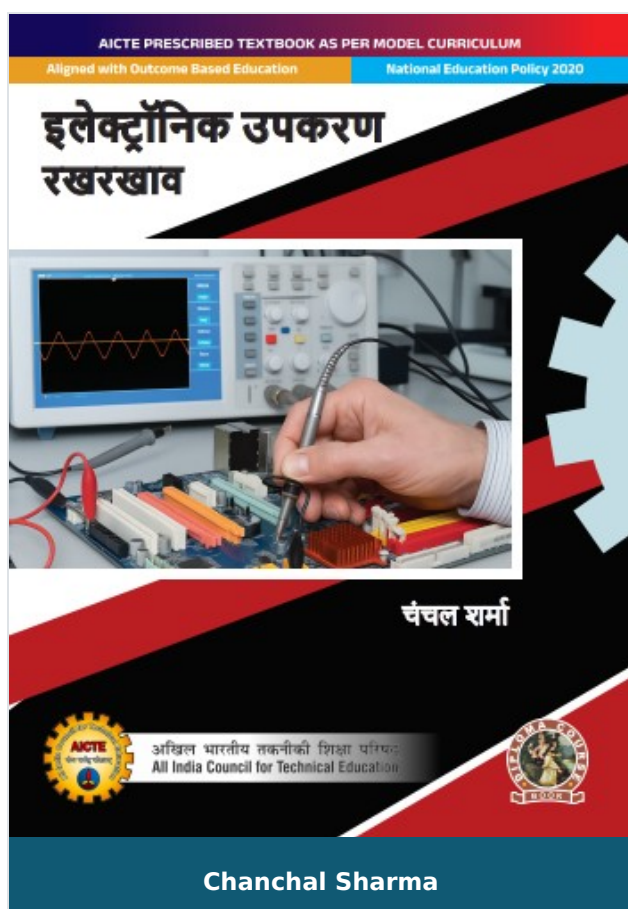
Author

V. K. Yadav

V. K. Yadav

Mina Talati

Mina Talati



Electronic Equipment Maintenance

Author :	Chanchal Sharma
ISBN 13 :	978-93-55383-29-7
ISBN 10 :	9355383290
E-ISBN 13 :	978-93-55383-29-7
Edition :	First
Pages :	220
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 325.00
Categories :	AICTE Prescribed Textbooks, Hindi Books, Book Store
Condition Type :	New
Country Origin :	India

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

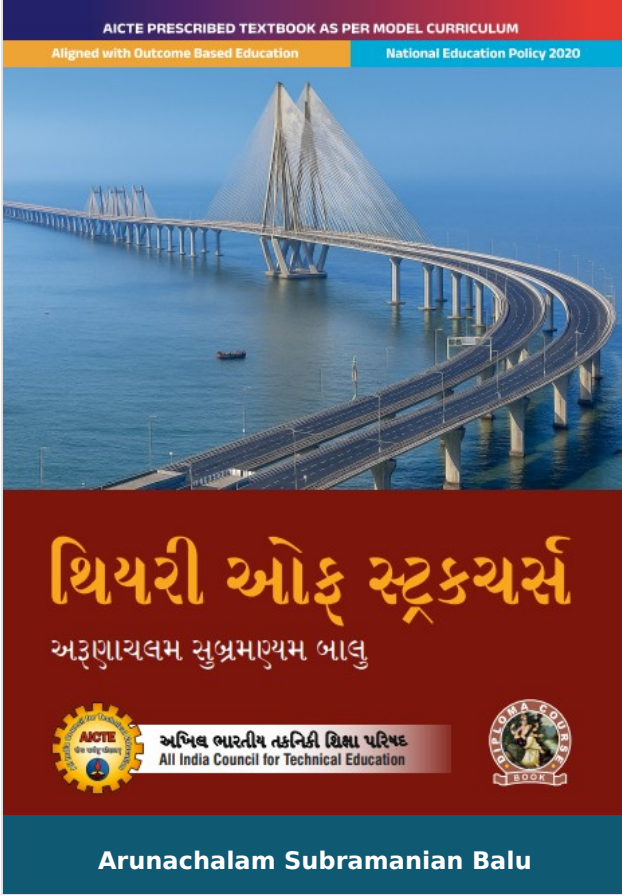
Product Description

Electronic Equipment Maintenance

Author

Chanchal Sharma

Dr. Chanchal Sharma Professor, Dept. of Electronics and Communication Engineering
(ECE) Arya College of Engineering and IT Jaipur (Rajasthan)



Theory of Structures

Author : Arunachalam Subramanian Balu

ISBN 13 : 978-93-55386-48-9

ISBN 10 : 9355386486

E-ISBN 13 : 978-93-55386-48-9

Edition : First

Pages : 328

Type of book : Physical

Year : 2026

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 498.00

Categories : [AICTE Prescribed Textbooks,](#)
[Gujarati Books, Book Store](#)

Condition Type : New

Country Origin : India

Product Description

Theory of Structures

Theory of structures is a basic core course developed for understanding the behaviour of structures. The presentation of physical principles founded in the field of mechanics can be used for understanding the behaviour of structures, which is the prerequisite for designing any structures. This book aims to help students in developing ability to analyze structures in a simple and logical manner. The contents are divided into five units as required for the students of diploma in civil engineering. The main contents of this book are aligned with the model curriculum of AICTE followed by the concept of Outcome based Education as National Education Policy (NEP)2020.

Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units 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 use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a 'know more' section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.

- Solved and unsolved problems including numerical examples are solved with systematic steps.

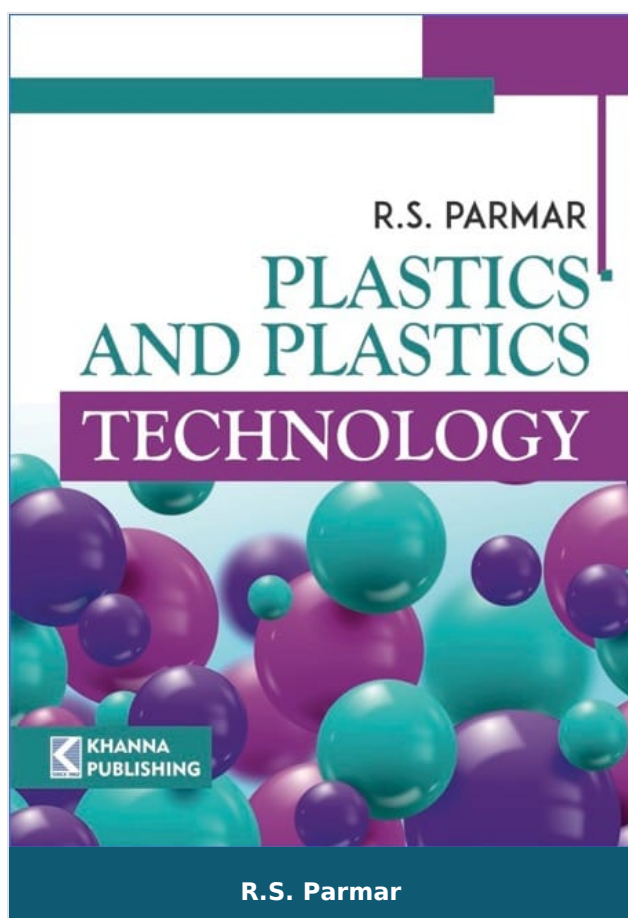
Table Of Contents

- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Guidelines for Teachers
- Guidelines for Students
- Abbreviations and Symbols
- List of Figures
- List of Tables
- Direct and Bending Stresses
- Slope and Deflection
- Fixed and Continuous Beams
- Moment Distribution Method
- Simple Trusses
- Appendices
- References for Further Learning
- CO and PO Attainment Table
- Index

Author

Arunachalam Subramanian Balu

Dr. Arunachalam Subramanian Balu Associate Professor, Department of Civil Engineering,
National Institute of Technology, Karnataka, Surathkal, Mangalore, Karnataka



Plastics & Plastics Technology

Author :	R.S. Parmar
ISBN 13 :	978-93-86173-74-4
ISBN 10 :	9386173743
E-ISBN 13 :	978-93-86173-74-4
Edition :	First
Pages :	304
Type of book :	Physical
Year :	2020
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 325.00
Categories :	Mechanical Engineering, Civil Engineering, Book Store
Condition Type :	New
Country Origin :	India

Product Description

This book is an outcome of author's desire for deeper knowledge into vital field of plastics without which it is almost impossible to imagine the modern day civilization. There has been an effort to cover all plastics used till date and fairly good details are provided regarding their chemical structure, properties and uses. Production of copolymers and poly alloys is also described. Production of Reinforced Plastics and Composites with their properties and specific uses are as well included.

Because it is essential to know the physical and mechanical properties of the plastics to select these for required service conditions so methods employed to determine such properties are described in fairly good detail. Manufacturing processes to shape the plastics for specific application are detailed at length. That includes molding, casting, welding, forming, machining and miscellaneous processes like calendaring, silk-screening, pultrusion, filament winding etc.

Selection of plastics for specific uses is an important consideration. So important uses of all major engineering plastics are listed. Unlike metals, identification of plastics is not easy but that knowledge is essential for reuse and recycling of them. So identification methods for plastics and their recyclability have been described as per the international norms.

At the end some appendices are included that provide helpful data need for selection and use of different plastics. Some selected standards on Plastics from ASTM and BIS are also included for ready reference for use by industries and researchers alike. Finally, Indian Institutes and Universities awarding degrees and diplomas in Plastic/Polymer Engineering and Technology are also listed for the benefit of those interested in pursuing this field as their profession.

Table Of Contents

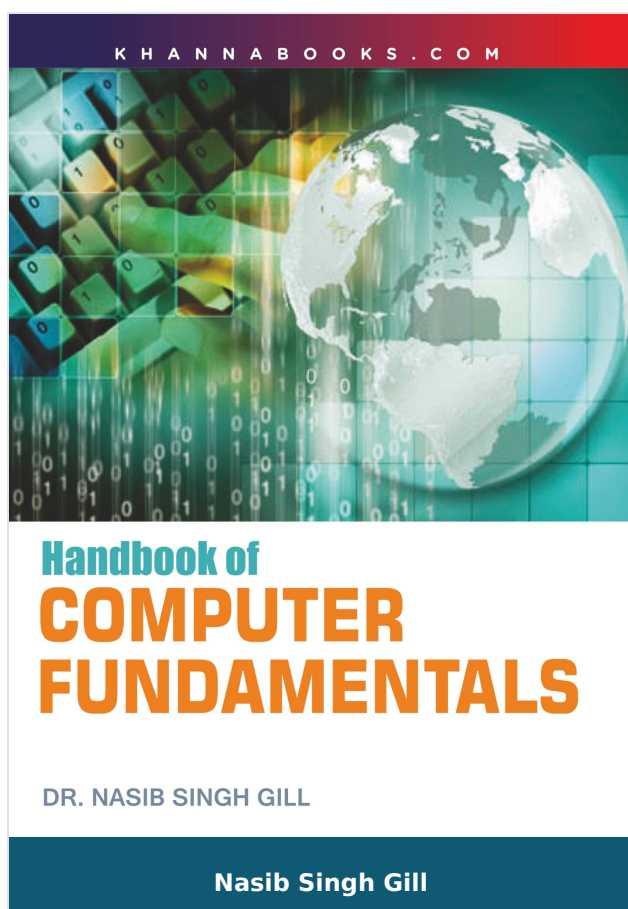
- Polymers, Plastics and Elastomers (Rubbers)
- Polymeric Materials
- Testing of Plastics
- Processing of Polymers
- Case Study: Automotive Products
- Recycling of Plastics
- Epilogue
- Appendices
- Bibliography Index

Author

R.S. Parmar

Dr. R.S. Parmar is B.A. and B.Sc (Mechanical Engineering) from Punjab University, M.E. (Production Engineering) from University of Roorkee (Now IIT, Roorkee) and Ph.D (Mechanical Engineering) from I.I.T. Kharagpur. He has an experience of more than 50 years in teaching and research in different subject of Mechanical Engineering particularly related to materials and manufacturing processes and technology. He served for about 14 years at R.E.C. (Now NIT), Srinagar (Kashmir), 21 years at I.I.T., Delhi and 20 years at NSIT (Now NSUT), New Delhi. He also served for one year at Brunel University, London (U.K.) He has guided a number of Ph.D., M.Tech., and B.tech. Research Projects and published a large number of technical papers in Indian and foreign journals on different aspects of manufacturing processes. He is a gold medallist from University of Roorkee and has won a number of awards from Institution of Engineers (India), American Welding Society, and Indian Institute of Welding. He is a life Fellow of Institution of Engineers

(India) and The India Institute of Welding and a Life Member of Indian Society of Technical Education.



Handbook of Computer Fundamentals

Author :	Nasib Singh Gill
ISBN 13 :	978-93-82609-67-4
ISBN 10 :	9382609679
E-ISBN 13 :	978-93-82609-67-4
Edition :	1
Pages :	400
Type of book :	Physical
Year :	2025
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 390.00
Categories :	Computer Science Engineering, Book Store, Best Sellers
Condition Type :	New
Country Origin :	India

Product Description

The complete spectrum of computer fundamentals starting from historical evolution of computers to its successful usage among common men. Another important dimension of the book includes its opening from general concept of data communication to the extent of internet & usage. The book also attempts to highlight the societal impacts of the computer technology. The language used in the book is lucid, is easy to understand, and facilitates easy grasping of concepts. The chapters have been logically arranged in sequence. The book is written in a reader-friendly manner both for the students and the teachers. Most of the contents presented in the book are in the form of bullets, organized sequentially. This form of presentation, rather than in a paragraph form, facilitates the reader to view, understand and remember the points better. The explanation is supported by diagrams, pictures and images wherever required. Adequate exercises have been given at end of the every chapter.

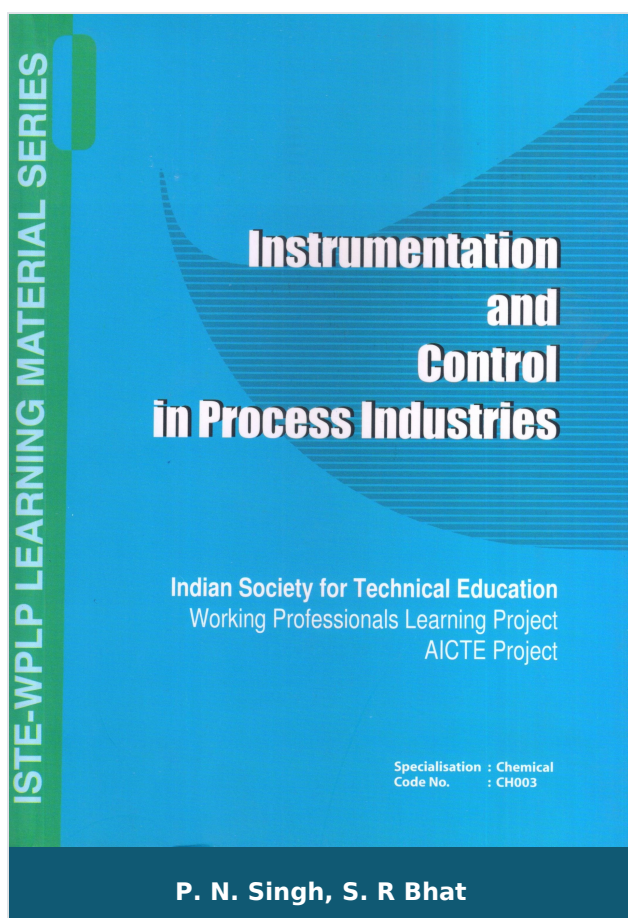
Table Of Contents

- Historical Evolution of Data processing and Computing
- Computers and their Classification
- Number Systems and their Inter conversions
- Computer Codes and Their Types
- Input and Output devices
- Memory and Mass Storage Devices
- Software and Operating System Concepts
- Programming languages and Program development
- Data Communication and Related Concepts
- Computer Networks and Internet
- Computer Applications.

Author

Nasib Singh Gill

Dr. Nasib Singh Gill is a high profile and an acknowledge teacher. Dr. Gill obtained his Ph.D. degree in Computer Science in March 1996 under the supervision of a very renowned and an eminent Computer Scientist, Pro-Head, Department of Computer Science & Applications, M.D. University, Rohatak. He is working in Department of Computer Science & Applications, M.D. University, Rohtak since its inception in Feb. 1990. Presently, he is working as Senior Faculty in the department and has more than 10.5 years of teaching experience. His area of research is 'Software Metrics', a sub-area of 'Software engineering' discipline and presently he is orienting himself in the area of 'Information Technology'



Instrumentation And Control in Process Industries

Author : P. N. Singh, S. R Bhat

ISBN 13 : 978-93-55384-77-5

ISBN 10 : 9355384777

E-ISBN 13 : 978-93-55384-77-5

Edition : 1

Pages : 184

Type of book : Physical

Year : 2009

Language : English

Publisher : Khanna Publishing House

M.R.P : Rs 274.00

Categories : [Chemical Engineering, Book Store, ISTE Series](#)

Condition Type : New

Country Origin : India

Product Description

Many case studies related to instruments and controllers in operating plants are covered. Chapter-1 covers the basic principle of control, various technical terms used in control, classification of control system, rudimentary knowledge on pneumatic, hydraulic and electronic controllers.

It is expected that by the end of covering these topics, people will be well familiar with technical jargons used by control engineers, why should there be automation, why process industries keep on investing very substantial amount to the extent of 20 to 30% of their plant outlay on instrumentation and control. Chapter 2- present a brief description of various types of instruments used in various industries.

Chapter-3 lays emphasis on dynamic behavior of process measuring instruments and other peripherals, response of open loop and closed loop systems, stability, controller tuning, estimation of transfer functions and system parameters in operational plants, determining optimum controller setting for best operation of plants and few case studies. Chapter 4- covers the scheme of operations and strategies to be followed while introducing controllers in plants.

It is expected that by the end of covering these topics, operating personnel will know theoretical basis of many operations on controllers that are being carried in plants, how some emergency measures are to be taken when the behavior of plant operations are not satisfactory.

Table Of Contents

- FOREWORD
- PREFACE
- Introduction to Control Systems
- Measurement and Final Control Element
- Process Dynamics and Controllers Design
- Applications of Control Schemes
- Appendix
- A Simple Glossary
- References

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