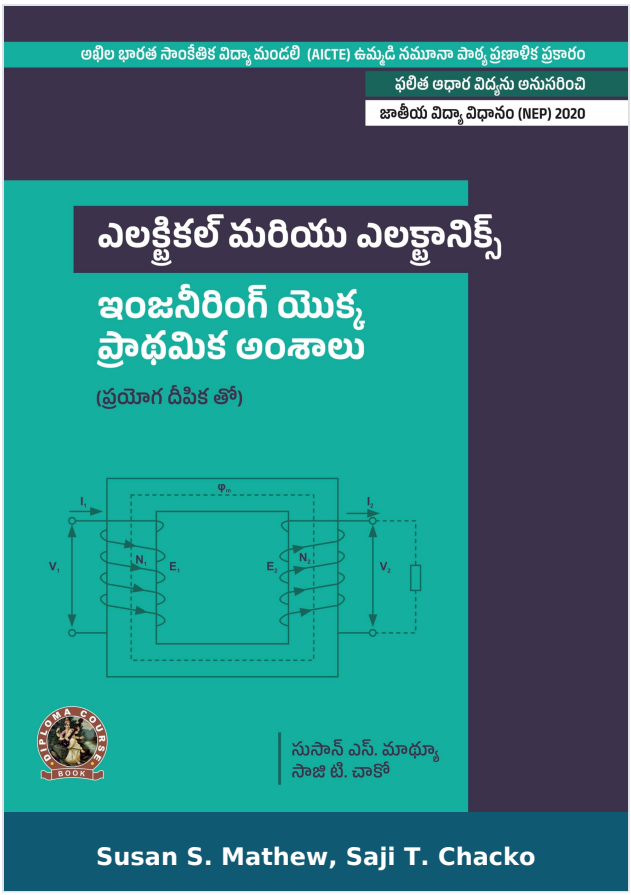


Fundamentals of Electrical and Electronics Engineering (with Lab Manual)

Author :	Susan S. Mathew, Saji T. Chacko
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Country Origin :	India

Product Description

“Fundamentals of Electrical & Electronics Engineering” is a compulsory paper for the first year Diploma course in Engineering & Technology Syllabus of this book is strictly aligned as per model curriculum of AICTE, and academic content is amalgamated with the concept of outcome based education.

Books covers six topics- Overview of Electronics Components and Signals. Overview of Analog Circuits. Overview of Digital Electronics, Electric and magnetic Circuits, A.C. Circuits and Transformer and Machines. Each topic is written is easy and lucid manner. A set of exercises at the end of each units to test the student’s comprehension is provided.

Some salient features of the book:

1. Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.

2. The practical applications of the topics are discussed along with micro projects and activities for generating further curiosity as well as improving problem solving capacity.

3. Book provides lots of vital facts, concepts, principles and other interesting information.

4. QR Codes of video resources and websites to enhance use of ICT for relevant supportive knowledge have been provided.

5. Student and teacher centric course materials included in book in balanced manner.

6. Figures, tables, equations and comparative charts are inserted to improve clarity of the topics.

7. Objective questions and subjective questions are given for practices of students at the end of each unit.

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

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- Overview of Digital Electronics.
- Electric and Magnetic Circuits.
- AC Circuits.
- Transformer and Machines.
- Appendices
- Answer to Objective Questions
- Reference for Further Learning
- Co and PO Attainment Table
- Index

Author

Susan S. Mathew

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Susan S. Mathew

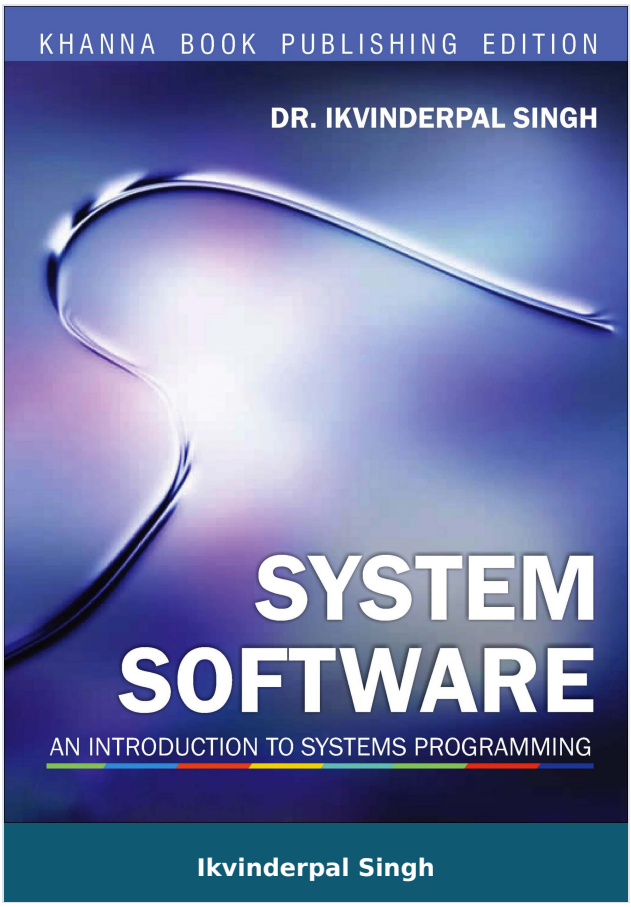
Saji T. Chacko

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System Software

Author :	Ikvinderpal Singh
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E-ISBN 13 :	978-93-81068-71-7
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Product Description

Fundamental concepts are introduced in simple terms, Numerous examples are included to illustrate concepts and techniques. The sequence of topics is well planned to provide a seamless transition from design to implementation. Fundamental concepts and basic design of each type of software in a machine-independent way. With each chapter, the continuity of topics is excellent. The figures appropriately enhance and amplify the topics. The exercises can be found at the end each chapter. Other sections are devoted to DBMS, text editor and interactive debugging systems.

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- Compilers
- Loaders And Linkage Editors
- Operating System
- System Software Tools

Author

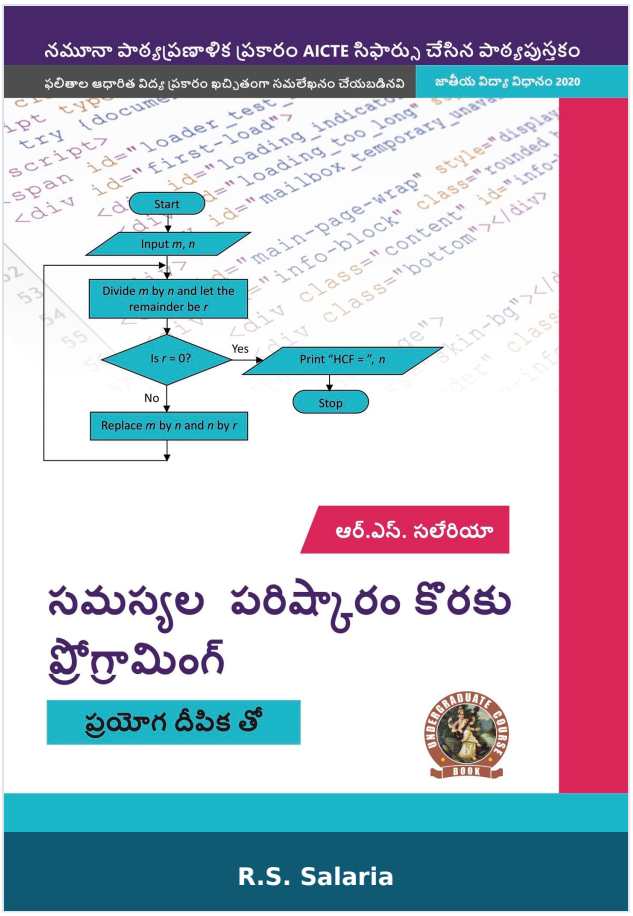
Ikvinderpal Singh

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.

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Programming for Problem Solving (with Lab Manual)

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Condition Type :	New
Country Origin :	India

Product Description

This textbook is designed as per the model curriculum of AICTE for the first year students of all branches of undergraduate program in Engineering & Technology (BE/B. Tech). The subject of programming for problem Solving aims at developing problem solving skills among the students and the skills to create programs in C language for their implementation. This book emphasizes to empower the students to grasp the skills required for problem solving and to develop deep understanding of the constructs of C language. These aspects of the subject are well illustrated through enormous solved programming problems.

Salient Features:

1. Simple and lucid language that enables students to grasp the subject.
2. Demonstrates the elegant programming style.
3. 165+ ready to run programs for reference and to illustrate the program development process.
4. 135+ Short answer type questions to provide an opportunity for self-assessment of the fundamental concepts learned by answering them precisely.
5. 165+ multiple choice questions to provide an opportunity to synthesize the fundamental concepts.
6. 90+ Programming problems to provide an opportunity to harness programming skills.

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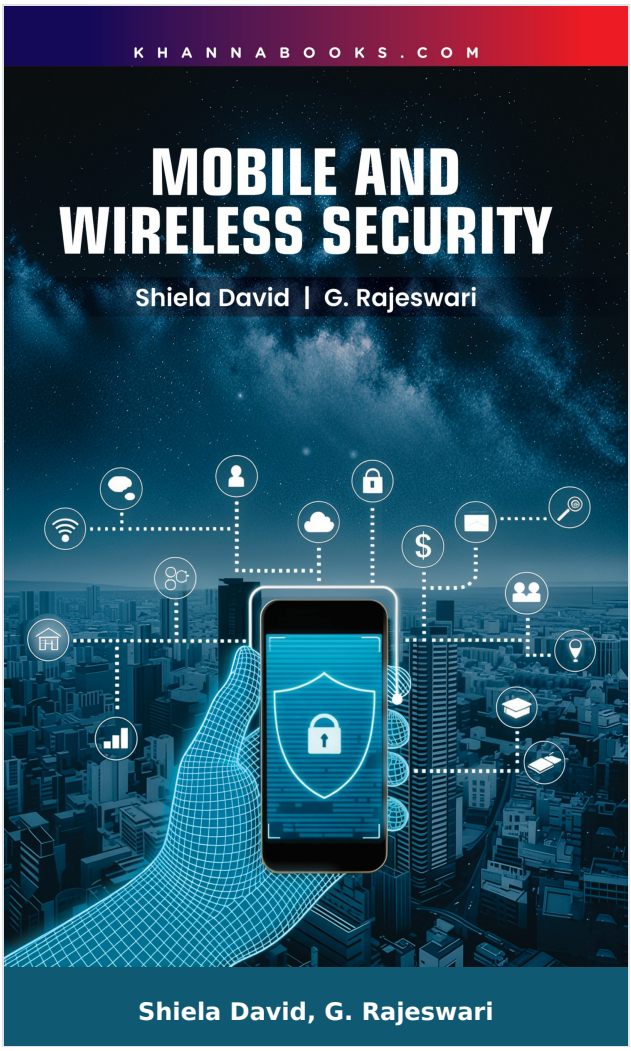
R.S. Salaria

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

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Mobile and Wireless Security

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Product Description

In our modern, interconnected world, where wireless networks and mobile devices have become ubiquitous tools for communication, business, and daily life, the imperative for robust security has never been greater. This handbook, Mobile and Wireless Security, serves as an essential guide, providing an in-depth understanding of this dynamic and critical field, from foundational principles to the newest industry trends.

The core purpose of this material is to illuminate the underlying systems of wireless technology and expose the resultant security threats they face. The book's major goals are to enable readers to grasp the basic features of wireless systems, meticulously examine the necessary security protocols and cryptographic methods, and confidently implement effective security practices across various wireless devices. It thoroughly addresses the vast array of threats, such as unauthorized access, data intrusion, and Denial of Service (DoS) attacks, that compromise modern wireless environments.

This resource is designed for a broad target audience, including IT professionals, cybersecurity experts, academics, students, and any individual or organization—from enterprises to governments—who must proactively safeguard sensitive data and defend against unauthorized access in a mobile-first landscape. By the end of this journey, you will possess the practical knowledge required to apply sophisticated security measures to mobile wireless systems with the confidence needed to secure wireless networks in real-world applications.

Salient Features:

• Foundational Network Models: Delivers a clear overview of the OSI and TCP/IP models, establishing the fundamental theoretical frameworks necessary for understanding how various network protocols interact during end-to-end communication.

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• Wireless Protocol Evolution: Provides a comprehensive examination of essential WLAN security protocols, detailing the weakness of WEP and the evolution through WPA and WPA2 to the robust security standards offered by WPA3.

• Core Cryptography Methods: Covers symmetric and asymmetric cryptography schemes, hash functions, and key secure protocols like SSL/TLS and IPSec, which are crucial for securing data confidentiality, integrity, and non-repudiation.

• Device Security Analysis: Dedicated content analyzes security problems specific to wireless devices, including Laptops and Handsets, covering topics like physical security, application security, and the risks of information leakage.

• Cellular System Defense: Explores security considerations for cellular networks, detailing threats, types of Cellular Fraud, and the security mechanisms employed within systems like GSM and data networks such as GPRS.

• Wireless Threat Landscape: Defines and provides mitigation techniques for pervasive wireless threats, including Eavesdropping, Communication Jamming, Rogue Client Attacks, and vulnerabilities arising from weak cryptographic algorithms.

• Practical LAN Implementation: Offers practical security guidance on deploying Wireless LANs in various organizational structures, including Large Enterprise Campuses, Wireless ISP Designs, and Small Office/Home Office (SOHO) environments.

• Security Best Practices: Outlines actionable strategies for a proactive security stance, emphasizing the need for robust Authentication, ongoing Network Monitoring, regular Firmware/Software Patching, and stringent physical access controls.

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Author

Shiela David

Shiela David

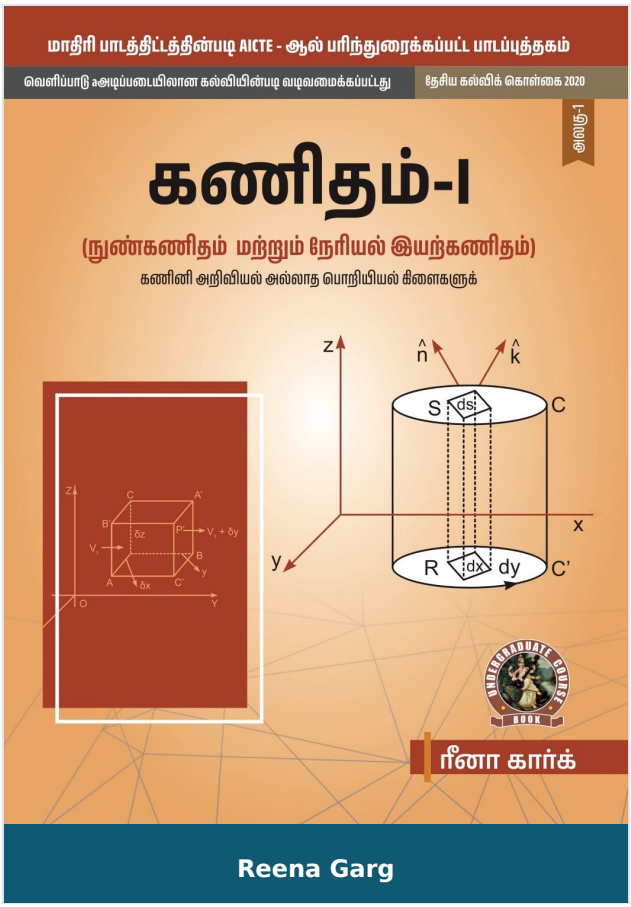
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Mathematics-I (Calculus and Linear Algebra) For Non-Computer Science Engineering Branches

Author :	Reena Garg
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Product Description

Calculus, Multivariable Calculus and Linear Algebra covers all the Modules prescribed by AICTE. Model curriculum to all the 1st year students (except CSE) studying in engineering institutions and universities of the country. It serves as both text book and / or useful reference work. It contains 5 units which include calculus, matrices, sequences & series and multivariable calculus along with their applications. This renowned and well respected title provides in one handy volume with the essential mathematical tools that helps in understanding the subject and problem solving techniques with many real life engineering applications. As per trademark of AICTE, this book is in student friendly style, author has endeavored enormous efforts in providing numerous solved examples and exercise under each topic to facilitate better understanding of the concepts to the students. Majority of Questions in this book have been designed to success the reader understands of the subject. Professionals or those who are preparing for competitive examinations will also find this book very useful. This book will give the students a complete grasp of the mathematical skills that are needed by engineers all over the country.

Some Salient Features of the Book:

1. In depth coverage of all related, essential and mentioned topics as per AICTE in simple presentation with clarity and accuracy.

2. Emphasis on the applications of concepts and theorems.

3. Core concepts are presented through a large number of solved graded model examples in an innovative and lucid manner.

4. A good number of relatively competitive problems are given at the end of each unit in the form of short questions, HOTS, assignments, MCQs and know more for student’s practices purpose. Practical /Projects/ Activity also given in each unit for enhancing the

student’s capability, to increase the feeling of team work

5. To clarify the subject, the text has been supplemented through Notes, Observations and Remarks; an attempt has been made to explain the topic through maximum use of geometries wherever possible.

6. Some standard problems with sufficient hints have been included in each exercise to gauge the student’s visual understanding and for grasp the theory.

7. Video links, interesting facts, uses of ICT also included after each topic in every unit for easy understanding of the readers. Also included the pictorial representations of many topics for fast and permanent grasping of the content.

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Author

Reena Garg

Dr. Reena Garg , M.Sc. Mathematics (Gold Medalist), M.Phil, Ph.D is Assistant Professor (Mathematics) in YMCA University of Science & Technology, Faridabad (Haryana). She also taught in C.I.T.M. Faridabad (presently known as Manav Rachna International University, Faridabad). Her teaching experience of more than a decade has made this book more valuable for the knowledge seekers.She has published more than 10 research

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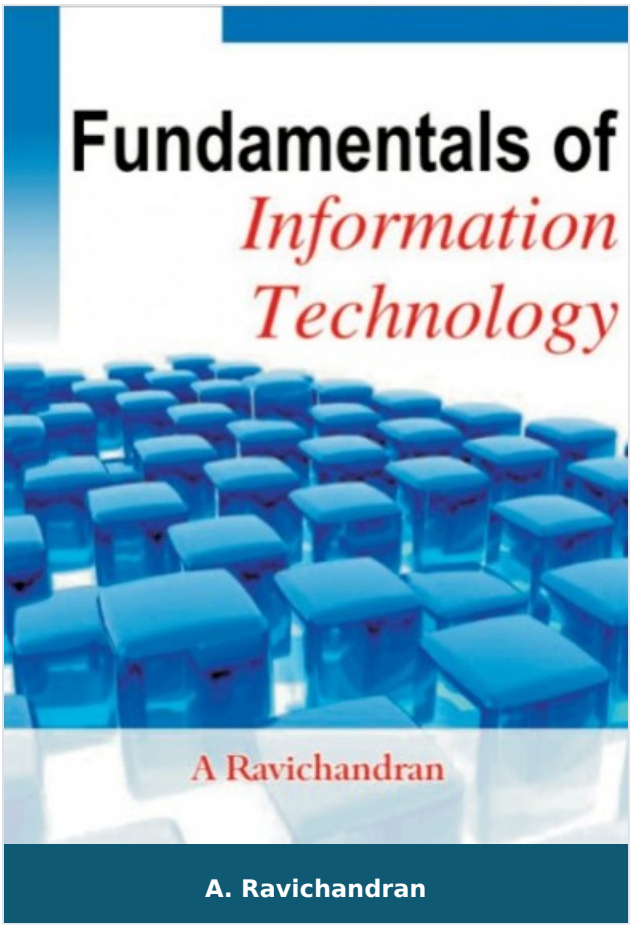
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papers in various InternationalJournals. She is a life-time member of Forum of Inter-disciplinary mathematics in India. She is a member of reviewer Board in IJRET, Bangalore.

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A. Ravichandran

Fundamentals of Information Technology

Author :	A. Ravichandran
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Product Description

This book Covers all the important aspects of computers, their growth, usage and abilities. Each topic has has fully covered to explain their developments and future usage. This book would serve the base for the learning process for all the students of computers and information technology. Starting with students of schools, to colleges, to the universities, or whosoever who wants to have more information about the subject. 20th century has seen the development of information technology to the fullest. This field is changing at such a fast speed that it becomes impossible to keep track of the developments taking place throughout the world. This book in one of the such book which keeps you informed about the development which has taken place and are now on the verge of capturing the market, specially, mobile computing, Geo Information system, knowledge database system, etc.

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- Introduction to Computer Security
- Cryptography
- Computer Virus, Worms and Bombs
- Multimedia and Applications
- New Technologies
- Use of Computers in various Industries
- Introduction to Tally 9.0

Author

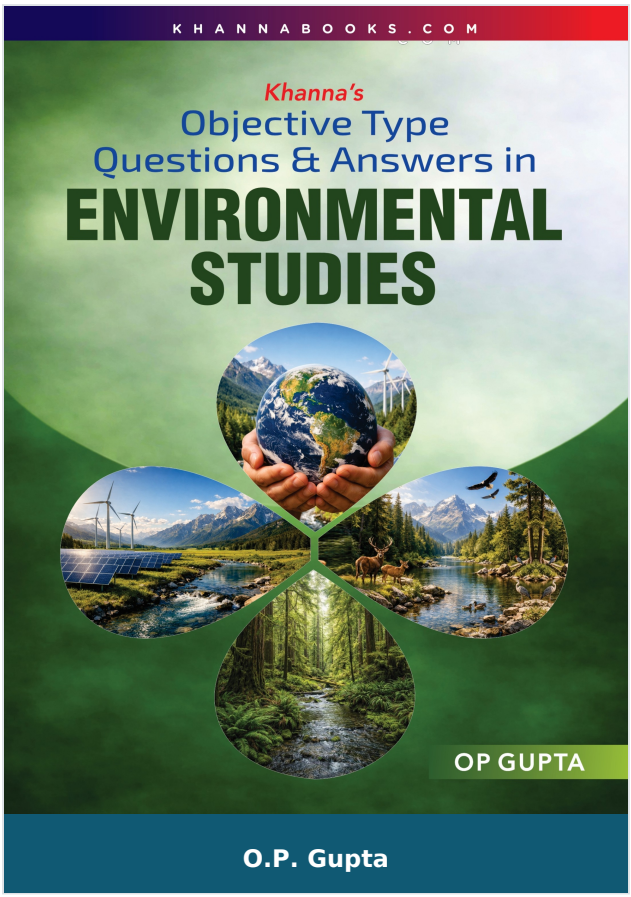
A. Ravichandran

A. Ravichandran He has obtained M.Tech degree in Computer Science & Engineering from IIT. Delhi and Ph.D degree in Computer Science and Engineering from IIT Kanpur. He has been in teaching field since 1983 and now currently guiding: research work on Image processing, Computer vision and Computer Graphics. He has also published 22 technical/research papers in National and International. He is an Sun certified programmer as well as Sun certified trainer by Sun Microsystems.

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Khanna's Objective Type Questions & Answers in Environmental Studies

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Product Description

Objective Type Questions and Answers in Environmental Studies by Om Prakash Gupta is a meticulously structured academic guide designed to simplify the complexities of environmental science. This comprehensive resource serves as a vital tool for students and professionals navigating the interdisciplinary nature of ecology, pollution control, and sustainable development. By blending fundamental concepts with a rigorous examination framework, the book provides readers with the clarity needed to understand human-environment interactions and the critical challenges facing our planet today.

The book's primary objective is to foster environmental consciousness and ethics through a diverse range of assessment styles. It is specifically tailored to meet the curricular requirements of degree, postgraduate, and diploma students across various engineering branches. Additionally, it serves as an essential reference for candidates preparing for professional associate membership examinations, such as AMIE, AMIIM, and AMIIChE, as well as B.Sc. and M.Sc. students. With its systematic approach and practical focus, the book bridges the gap between academic theory and real-world environmental management.

Salient Features

• Dual-Section Assessment Model: The text is strategically divided into objective-type questions and short-answer formats to cater to different examination patterns and learning styles.

• Multidisciplinary Scope: It covers a wide range of topics, including ecology, ecosystem dynamics, biodiversity, and the socio-economic impacts of industrialization and urbanization.

• Sustainable Development Focus: A significant emphasis is placed on sustainable practices, exploring the balance between economic growth and the preservation of

natural resources for future generations.

• Environmental Impact Tools: The book provides detailed insights into critical regulatory and assessment tools, such as Environmental Impact Assessment (EIA), essential for modern engineering and policy-making.

• Biodiversity and Conservation: Readers gain an in-depth understanding of genetic, species, and ecosystem diversity, alongside the legislative frameworks designed for wildlife and forest protection.

• Human-Centric Challenges: The content addresses pressing human issues, including population explosion, family welfare programs, and the health impacts of environmental pollutants like heavy metals and pesticides.

• Comprehensive Technical Glossary: A specialized glossary is included to define complex terminology in environmental science and renewable energy, ensuring students master the professional vocabulary of the field.

• Practical Problem Solving: Through its diverse Q&A format, the book encourages the application of engineering interventions for environmental protection, such as flood control and waste management.

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- SECTION B: Short Answer Type Questions
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Author

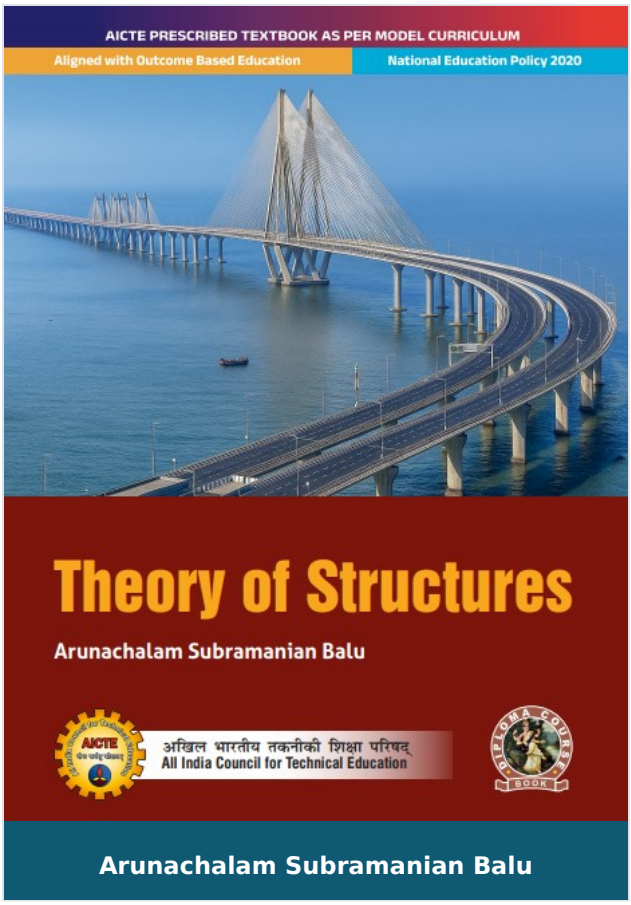
O.P. Gupta

O.P. Gupta Om Prakash Gupta is basically being a chemical engineer, he has a practising experience of efficient Ennergy management and HR functions in steel Industry for more than three decades. privileged to be the youngest writer of technical books in the country (for he had written his first book at the age of 24 years while doing M. Tech. at I.I.T kanpur in 1979), he has authored many frontline books for engineering students. besides, being the regular faculty member in technical courses for Management Trainees (Technical), he has also visited england and france on a study tour sponsored by United Nations Development Programme (UNDP) to study the scope of energy conservation in steel plants in 1987.

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Theory of Structures

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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 i8n 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.

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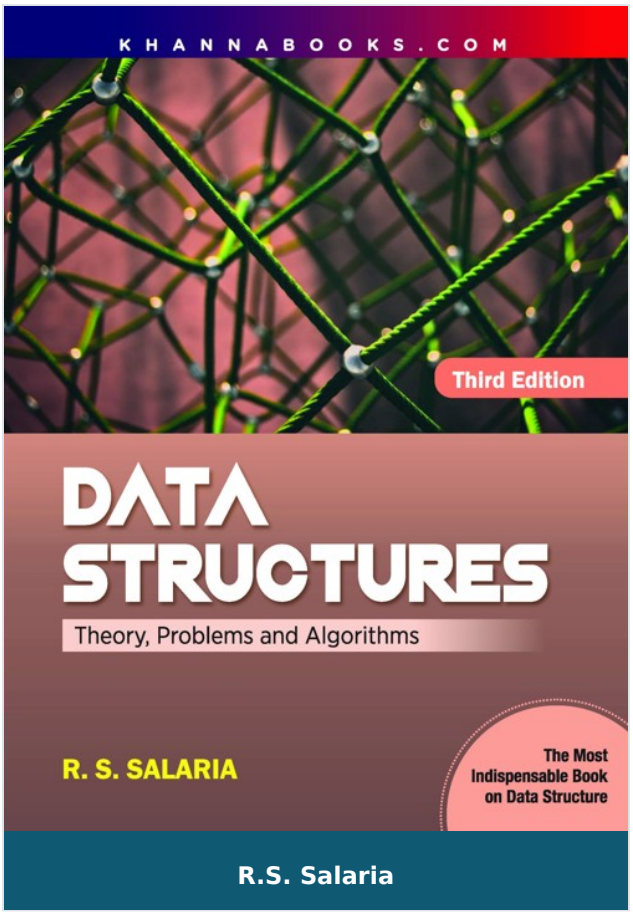
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Data Structures

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- Stacks
- Queues
- Trees
- Heaps
- Graphs
- Hashing and Hash Tables
- Sorting Algorithms

Author

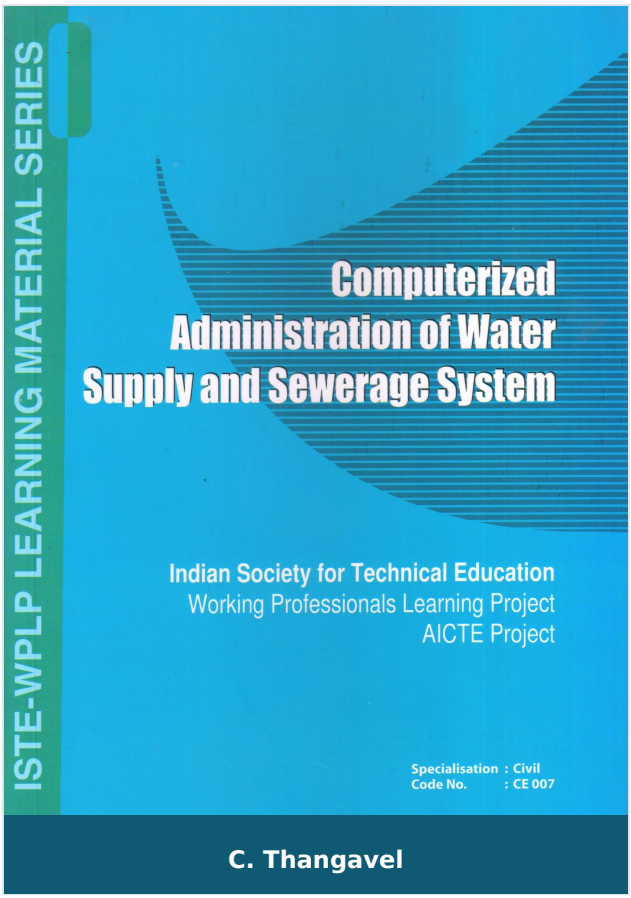
R.S. Salaria

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

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Through working professionals need to spend enough time to learn the state-of-art-technology to improve the existing system, it may be very difficult for them to spare enough time to cope with the tremendous technological changes take it is designed and developed keeping view of their requirements. The main objective of this book is to enable the professionals to identify, update and enhance their knowledge on the technology and put to use in a perfect way to deliver better services to the citizens/customers with sustainability. It has the following important features.

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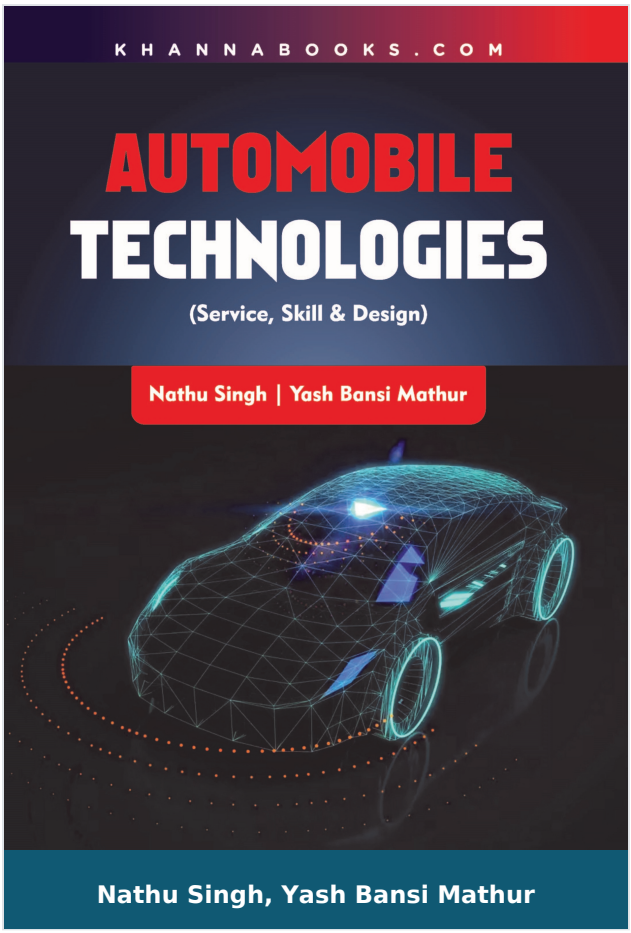
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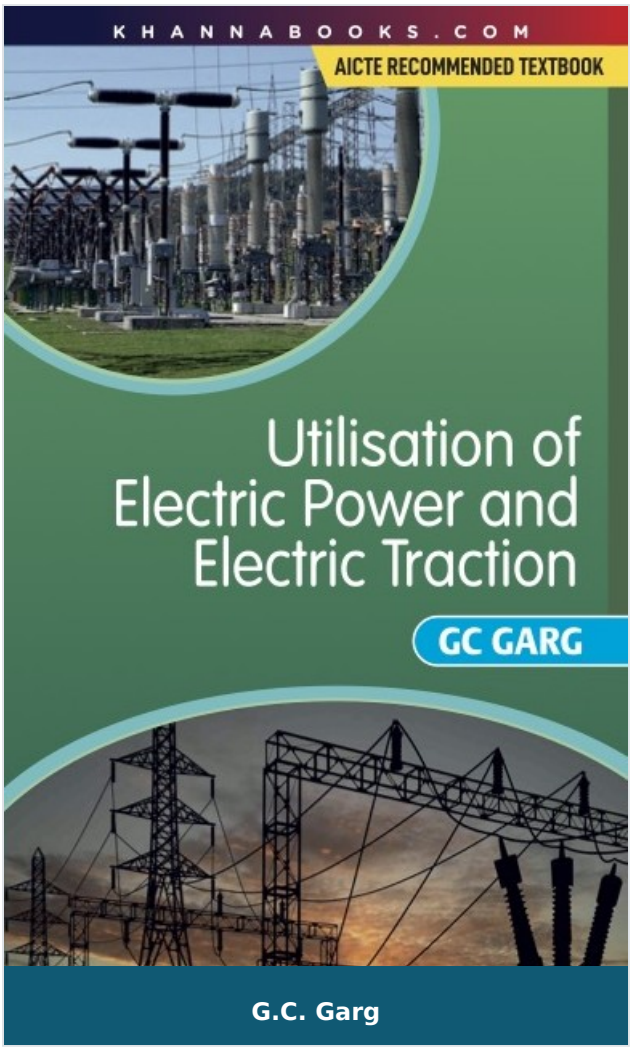
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Utilisation of Electric Power and Electric Traction

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- Objective Type Questions of Industrial Utilisation

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