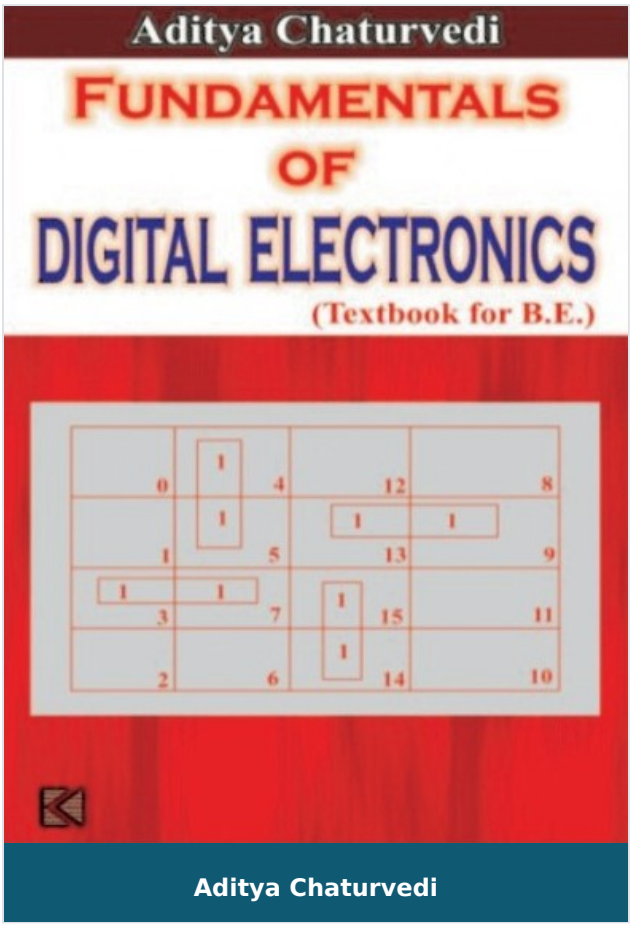



# Fundamentals of Digital Electronics

| | |
|---|---|
| **Author :** | Aditya Chaturvedi |
| **ISBN 13 :** | 978-81-87325-73-4 |
| **ISBN 10 :** | 8187325739 |
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## Product Description

This book is primarily written for the BE/ B. Tech students of IT, computer, Electrical & Electronics & communication Engineering branches, who study this subject in 3rd, 4th semester and practically covers the course prescribed by all major universities. The language is kept simple and conversational so that all students can follow the book easily. The book will also be useful for students of other engineering branches and students of MCA, BCA, PGDCA etc. Who also study part of this subject like Boolean algebra, logic gates, number system etc. as a part of their syllabus. The book has large number of solved problems as well as assignments with their solutions given at the end of the book to assist the students in better understanding of the various topics.

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- Number System
- Binary Codes
- Radix Arithmetic
- Basic Logic Gates
- Boolean Algebra
- Simplification
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- Encoders
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- Counters and Registers
- Analysis of Sequential Circuits
- Hazards
- Logic Families
- ADC/DAC : Solved Questions-Answers


## Author

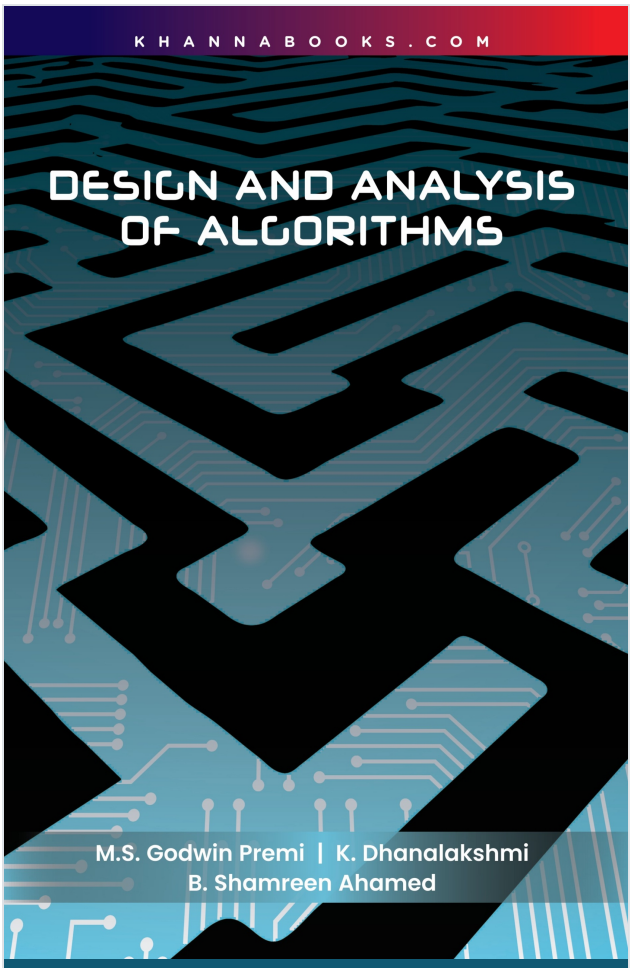
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Aditya Chaturvedi is a graduate of I.I.T. Kharagpur with more than 30 years of experience in Industry and in Teaching. At present he is working as a faculty at MIT, Kota.

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**B. Shamreen Ahamed, M. S. Godwin Premi, K. Dhanalakshmi**

# Design and Analysis of Algorithms

| | |
|---|---|
| **Author :** | B. Shamreen Ahamed, M. S. Godwin Premi, K. Dhanalakshmi |
| **ISBN 13 :** | 978-93-55382-63-4 |
| **ISBN 10 :** | 9355382634 |
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## Product Description

This comprehensive textbook, Design and Analysis of Algorithms, is meticulously structured to provide Computer Science Engineering students with an in-depth and systematic understanding of foundational algorithmic principles. The core theme of the book revolves around the effective approach to computational problem-solving, emphasizing the art of designing efficient algorithms and rigorously analyzing their performance.

The book's purpose is to bridge the gap between theoretical knowledge and practical implementation, ensuring that learners can not only grasp complex concepts but also apply them to real-world computational challenges. It systematically covers essential methodologies across five comprehensive units. Starting with the fundamentals of algorithmic problem-solving, it delves into the critical concepts of Time and Space Complexity, Growth of Functions, and Asymptotic Notations (Big-O, Omega, and Theta).

It moves through major design paradigms, including Brute Force, Divide-and-Conquer, Greedy Approach, Dynamic Programming, and Backtracking and Branch and Bound. Detailed discussions on classic problems—like the Travelling Salesman, Knapsack, Huffman Coding, and Optimal Binary Search Trees—demonstrate the strengths and weaknesses of each approach. Written in a clear, simple, and student-friendly manner while maintaining academic rigor, this book is an indispensable resource. It serves as a comprehensive guide for students, educators, and researchers seeking to build a strong analytical mindset and a deep appreciation for the art and science of algorithm design.

Salient Features:

• Fundamental Analysis: Offers a detailed introduction to Time and Space Complexity, Growth Functions, and Asymptotic Notations (Big-O, Omega, Theta), enabling mastery over performance estimation and efficiency.

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• Recurrence Relation Mastery: Dedicated coverage on solving recurrence equations using methods like Substitution, Recursion Tree, and the Master Method for precise algorithm time analysis.

• Five Major Techniques: Systematically explores all major algorithm design techniques, including Divide-and-Conquer, Greedy Approach, Dynamic Programming, Backtracking, and Branch and Bound.

• Linear Time Sorting: Features in-depth explanations of advanced sorting algorithms that achieve linear time complexity, such as Counting Sort, Radix Sort, and Bucket Sort.

• Practical Applications: Discusses classic problems like Travelling Salesman, Knapsack, Huffman Coding, and the 8-Queens Problem, illustrating the real-world application of theoretical concepts.

• Efficiency Benchmarking: Provides both Theoretical and Empirical Analysis methods for complexity, with program examples to ensure a clear understanding of practical performance measurement.

• Combinatorial Optimization: Focuses on advanced techniques like Backtracking and Branch and Bound, demonstrating their effective use in solving complex combinatorial optimization and NP-Complete problems.

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## Table Of Contents


- Introduction to Analysis of Algorithms
- Mathematical Foundations
- Brute Force and Divide-and Conquer
- Greedy Approach and Dynamic Programming
- Backtracking and Branche and Bound


## Author


**B. Shamreen Ahamed**

B. Shamreen Ahamed

**M. S. Godwin Premi**

M. S. Godwin Premi

**K. Dhanalakshmi**

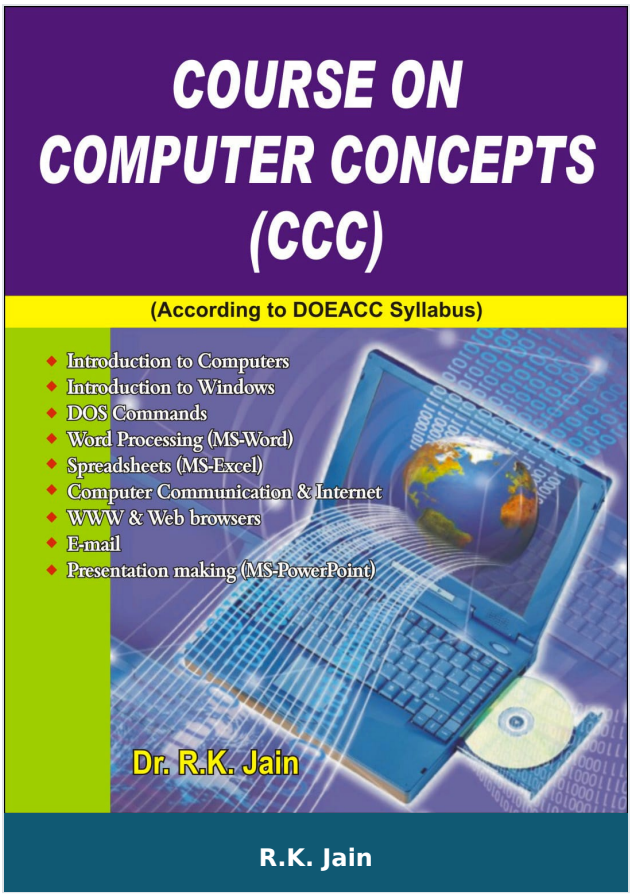
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# Course on Computer Concepts (CCC)

| | |
|---|---|
| **Author :** | R.K. Jain |
| **ISBN 13 :** | 978-93-80016-84-9 |
| **ISBN 10 :** | 9380016840 |
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## Product Description

This books is prepared on the syllabus issued by the department of electronics (DOE) and under the scheme of all India council for technical education (AICTE), department of information technology (DIT), and ministry of communication and information technology (MICT), Government of India. The book is divided into the nine chapters and each chapter strictly covers the topics as per the syllabus defined by DOEACC society. Each topic in the chapter is property explained with the help of computer snap shots, wherever necessary. At the end of each chapter, summery of the chapter is provided for quick review of it. All the chapters are covered with large no. of questions as per the guidelines of DOE. large no. of objective type questions are also provided with the answers to them. Not limited to this, proper care has taken to write the chapters in simple English and step-by-step approach is used for the easy and fast understanding purpose.

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- Introduction to Computers
- Introduction to GUI based Operating Systems
- Introduction to Windows 7
- Elements of Word Processing
- Spreadsheet
- Computer Communication and Internet
- WWW and Web Browsers
- Combination and Collaboration
- Making Small Presentations
- Index


## Author

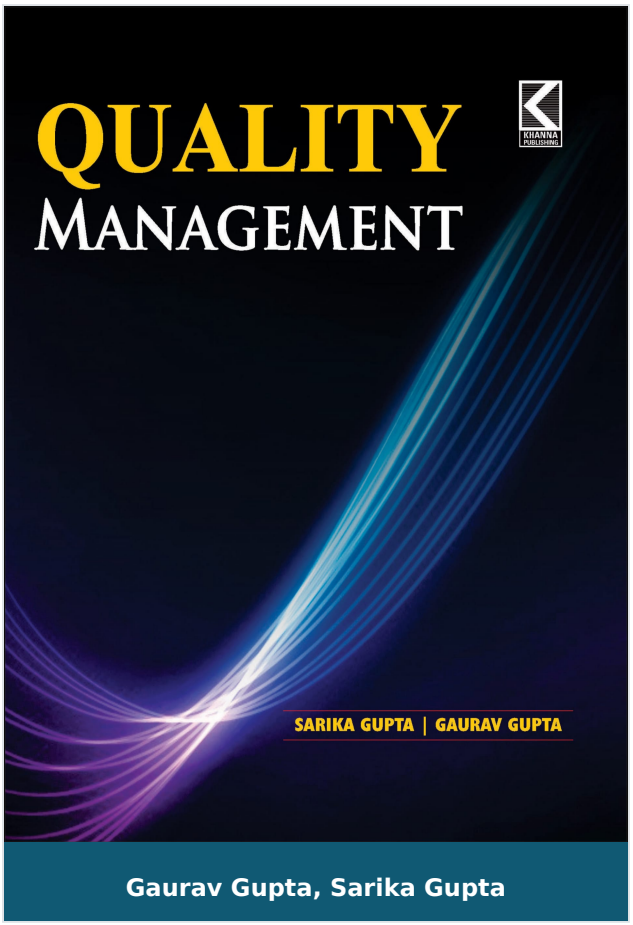
**R.K. Jain**

Dr. R.K. Jain studied at IIT Powai and submitted his thesis for Ph.D at Iit Delhi. He has held various important posts in the past. At present he is advisor to variuos universities on setting up of a computer department and setting up of the syllabus for the same. With his knowledge of the various computer topics, he is and ideal choice for writing these kinds of books.

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# Quality Management

| | |
|---|---|
| **Author :** | Gaurav Gupta, Sarika Gupta |
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## Product Description

Quality management thinking has influenced a revolution in the way organizations are managed over the past few decades. Idea such as customer focus, ethical management, continuous improvement, Six sigma, leadership and organizational learning have all been impacted by and in some cases developed from this important field. this provides a coherent view of the underlying principles quality management, and how these relate to practical application in a range of organizations. This book is designed to provide an overview of the key elements, important historical context and current debates in the field of quality management. It aims to give a coherent view of the underlying principles of quality management, and how these relate to practical application in a range of organization.

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- Introduction
- Quality Control in Purchasing
- Manufacturing Quality Origins and Principles of Lean Manufacturing
- Quality Management Organization Structure and Design
- Human Factor in Quality
- Control Charts in Quality Management
- Attributes Control Charts
- Defect Diagnosis
- ISO9000
- MODEL TEST PAPER
- QUESTION BANK


## 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

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# Mati Kahe Pukar Ke

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| **Author :** | Girish Chand Agarwal |
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## Author

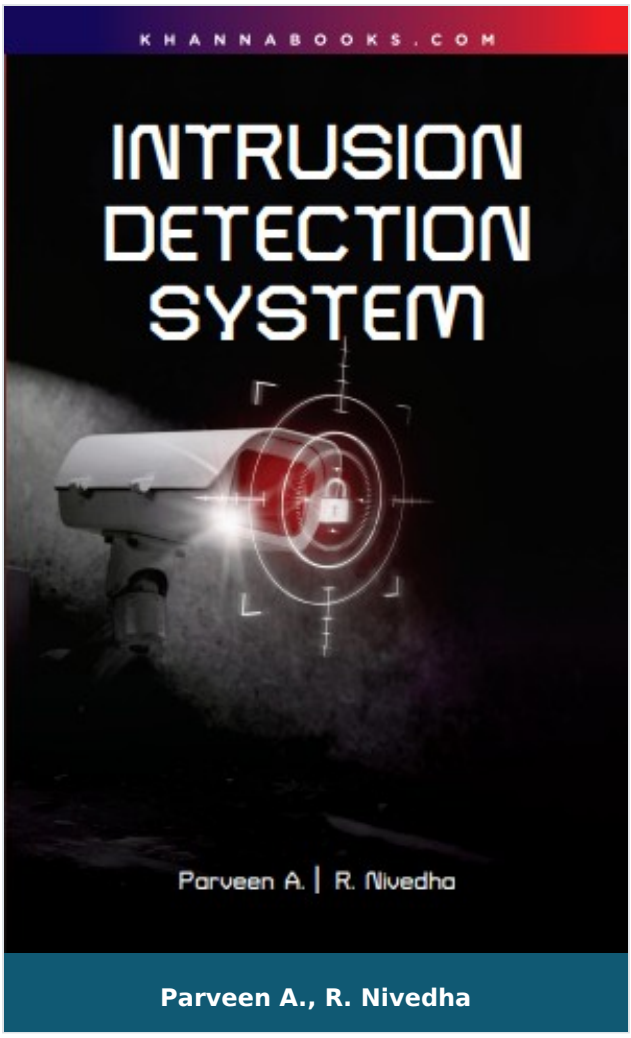
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Parveen A., R. Nivedha

# Intrusion Detection Systems

| | |
|---|---|
| **Author :** | Parveen A., R. Nivedha |
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## Product Description

### Intrusion Detection Systems

"INTRUSION DETECTION SYSTEMS" offers a comprehensive and vital resource for navigating the rapidly evolving domain of cybersecurity. Written in an academic yet accessible tone, this book provides a thorough introduction to Intrusion Detection Systems (IDS), exploring their historical evolution, foundational concepts, and critical role in protecting modern digital environments. The core purpose of this text is to bridge the gap between theoretical knowledge and real-world application, equipping readers with the expertise to implement robust security strategies against increasingly sophisticated threats.

The book highlights the transformative impact of Machine Learning (ML) and Artificial Intelligence (AI) on IDS, detailing deep learning approaches, ML models for anomaly detection, and feature engineering techniques. It goes beyond traditional methods to address the unique challenges of securing emerging technologies such as the Internet of Things (IoT), cloud-based networks, and blockchain. Furthermore, it delves into advanced techniques like fuzzy logic, genetic algorithms, hybrid models, and real-time IDS using big data analytics.

This indispensable guide is meticulously structured with five units and includes detailed case studies, making it an essential text for its target audience: students seeking foundational knowledge, professionals looking to upgrade their deployment strategies, and researchers exploring open challenges like adversarial ML attacks and autonomous IDS development. It serves as a definitive roadmap for enhancing network resilience against the ever-changing cyber threat landscape.

**Salient Features:**

- **Core IDS Fundamentals**: Explore the history, evolution, and foundational principles of IDS. Compare signature-based, anomaly-based, and hybrid models, and understand key evaluation metrics like TPR and FPR.
- **AI-Driven Detection**: Master the use of Machine Learning and Deep Learning, including CNNs and LSTMs, to enhance anomaly detection capabilities and prepare large-scale datasets for modern IDS.
- **Securing New Frontiers:** Learn to design and implement specialized IDS for emerging technologies like IoT, cloud computing, and blockchain. Focus on lightweight solutions for resource-constrained mobile and edge environments.
- **Advanced Threat Mitigation**: Investigate cutting-edge techniques such as fuzzy logic and genetic algorithms in IDS. Understand hybrid models, distributed architectures, and real-time big data analytics for large-scale networks.
- **Future Resilience & Research**: Analyze emerging threats and explore future trends like autonomous and self-healing IDS. Study the defense against adversarial ML attacks and the strategic integration with SIEM systems.
- **Real-World Application**: Apply theoretical knowledge through five detailed case studies, including enterprise deployment, advanced financial institution solutions, and securing smart city infrastructure.
- **Defense Architecture**: Clearly differentiate between the passive monitoring role of Intrusion Detection Systems (IDS) and the proactive blocking function of Intrusion Prevention Systems (IPS) in modern security.

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## Table Of Contents


- Introduction to Intrusion Detection Systems
- Machine Learning and Artificial Intelligence In IDS
- IDS for Emerging Technologies
- Advanced Techniques and Hybrid Models
- Future Trends and Research Challenges


## Author


**Parveen A.**

Parveen A. , Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology R. Nivedha, Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology

**R. Nivedha**

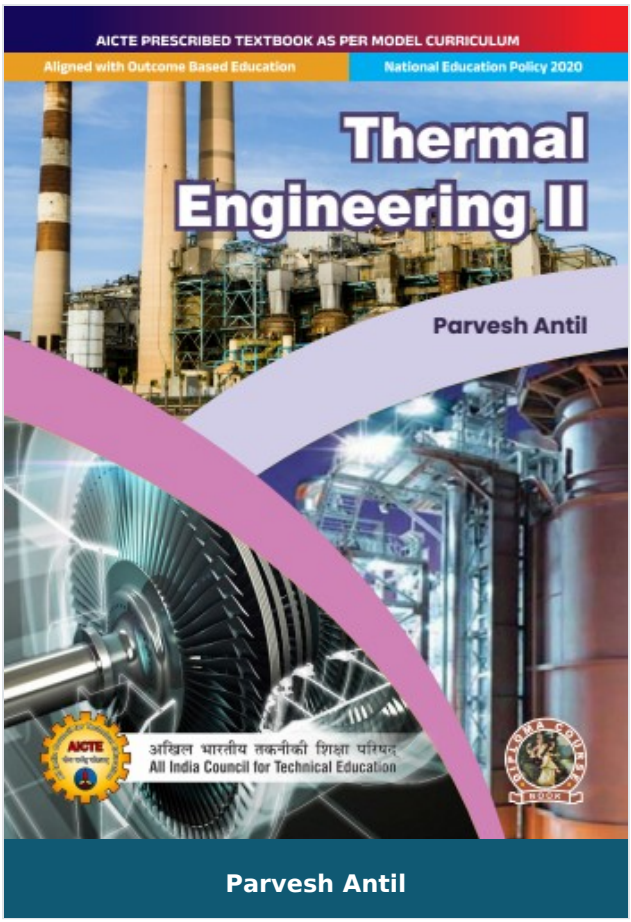
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# Thermal Engineering- II

| | |
|---|---|
| **Author :** | Parvesh Antil |
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## Product Description

Thermal Engineering- II

Thermal Engineering 2 is a fundamental subject for engineering students in the mechanical Engineering domain, providing a foundation for logical and analytical thinking. Thermal systems are crucial for regulating temperatures and facilitating energy transfer in a wide range of applications, including building heating and cooking, power production, and industrial operations. The aim of this book is to familiarize the students with the various thermal systems so that they can thing big and innovative for future energy requirements.

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

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- Steam Generators
- Steam Nozzles
- Steam Turbines
- Co and Po Attainment Table
- Index


## Author


**Parvesh Antil**

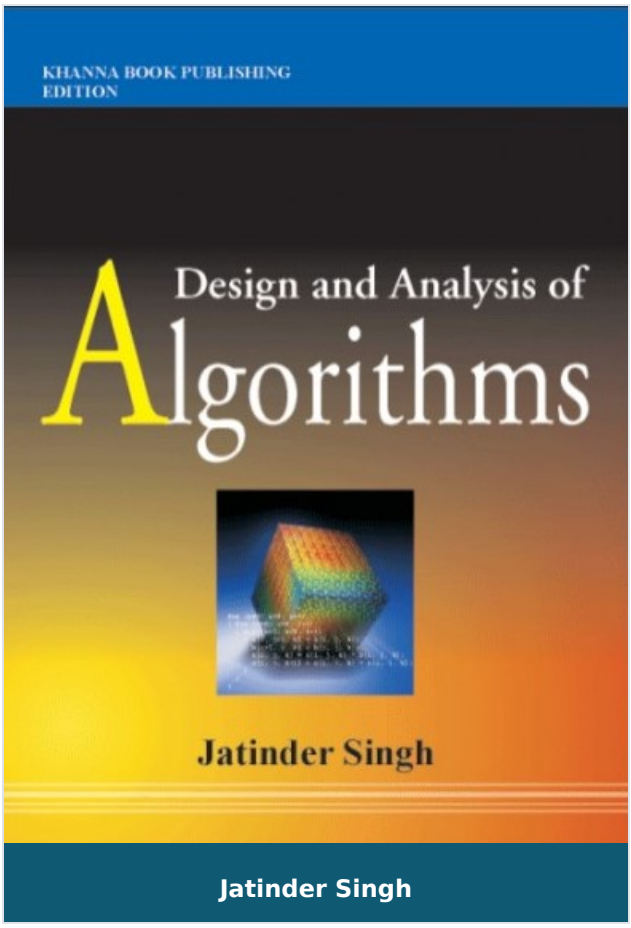
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Jatinder Singh

# Design & Analysis of Algorithms

| | |
|---|---|
| **Author :** | Jatinder Singh |
| **ISBN 13 :** | 978-93-80016-71-9 |
| **ISBN 10 :** | 9380016719 |
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## Product Description

This book is an ideal test to provide in depth knowledge on design and analysis of algorithm. The purpose of the book is to make the students understand the fundamentals of design and analysis of algorithm conveniently. It is meant to be used as a text book for BSc/BCA/MCA/MSc/ B.E./B. Tech/MSc/MS/M. Tech and diploma courses, and as a reference book.

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- The Greedy Method
- Backtracking
- Divide and Conquer
- Branch and Bound
- UNIT - 4
- Chapter 2: Graphs
- Single- Source Shortest Path
- All-Pairs Shortest Paths
- Dijkstraâ€™s Algorithm
- Minimum-Cost Spanning Trees
- UNIT - 5
- String Matching


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- Randomization
- Amortized Analysis of Data Structure

## Author

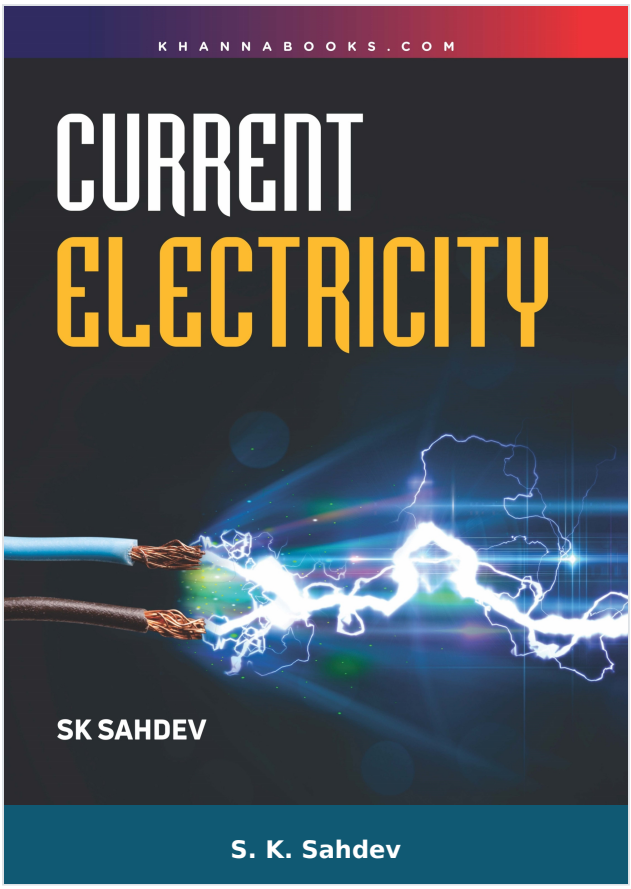
**Jatinder Singh**

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# Current Electricity

| | |
|---|---|
| **Author :** | S. K. Sahdev |
| **ISBN 13 :** | 978-93-90779-09-3 |
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## Product Description

CURRENT ELECTRICTY  - SK SAHDEV

TOPICS COVERED IN THE BOOK

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2. DC CURRENT.
3. ELECTRIC CELLS.
4. LIGHTING EFFECT OF ELCTRIC CURRENT.
5. CAPACITORS.
6. ELECTROMAGNETIC EFFECTS.
7. C. CIRCUIT.

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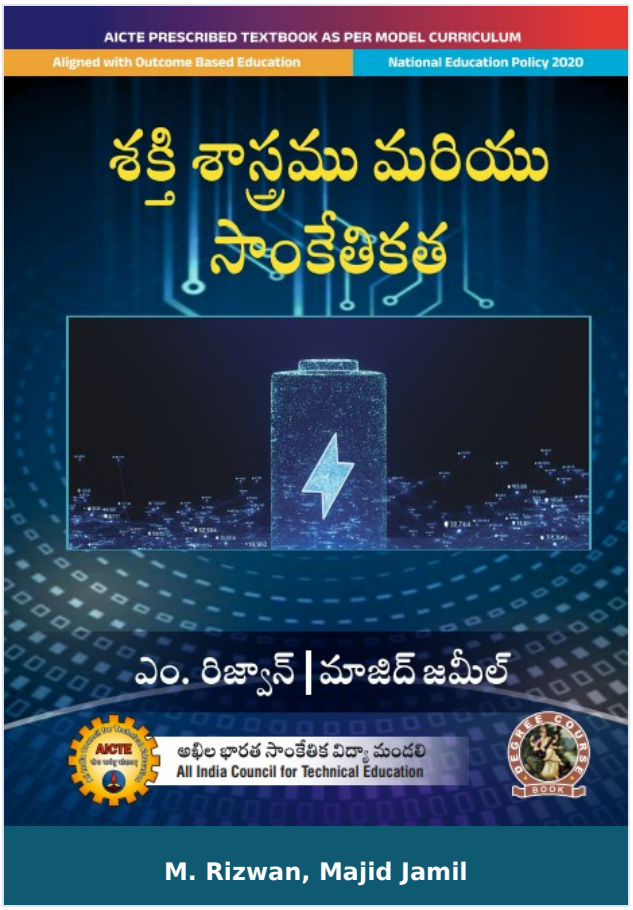
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