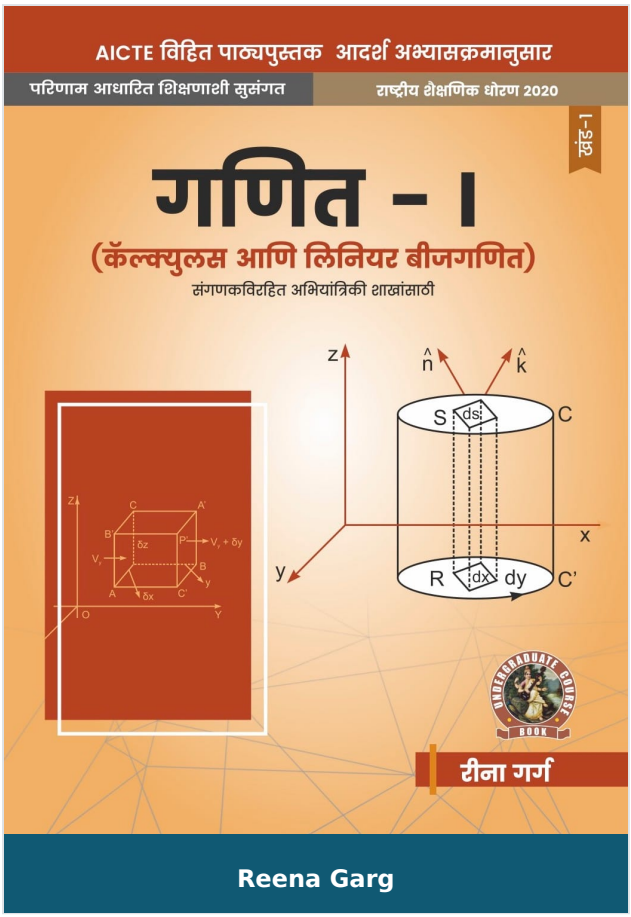


# Mathematics-I (Calculus and Linear Algebra) For Non Computer Science Engineering Branches

| | |
|---|---|
| **Author :** | Reena Garg |
| **ISBN 13 :** | 978-93-55380-37-1 |
| **ISBN 10 :** | 9355380372 |
| **E-ISBN 13 :** | 978-93-55380-37-1 |
| **Edition :** | First |
| **Pages :** | 696 |
| **Type of book :** | Physical |
| **Year :** | 2022 |
| **Language :** | English |
| **Publisher :** | Khanna Publishing House |
| **M.R.P :** | Rs 395.00 |
| **Categories :** | AICTE Prescribed Textbooks, Marathi Books, Book Store, Ebooks |
| **Condition Type :** | New |
| **Country Origin :** | India |

## 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 n 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

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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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- and Series
- Multivariable
- Calculus –I
- Matrices
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- CO and Po Attainment Table.


## Author

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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

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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 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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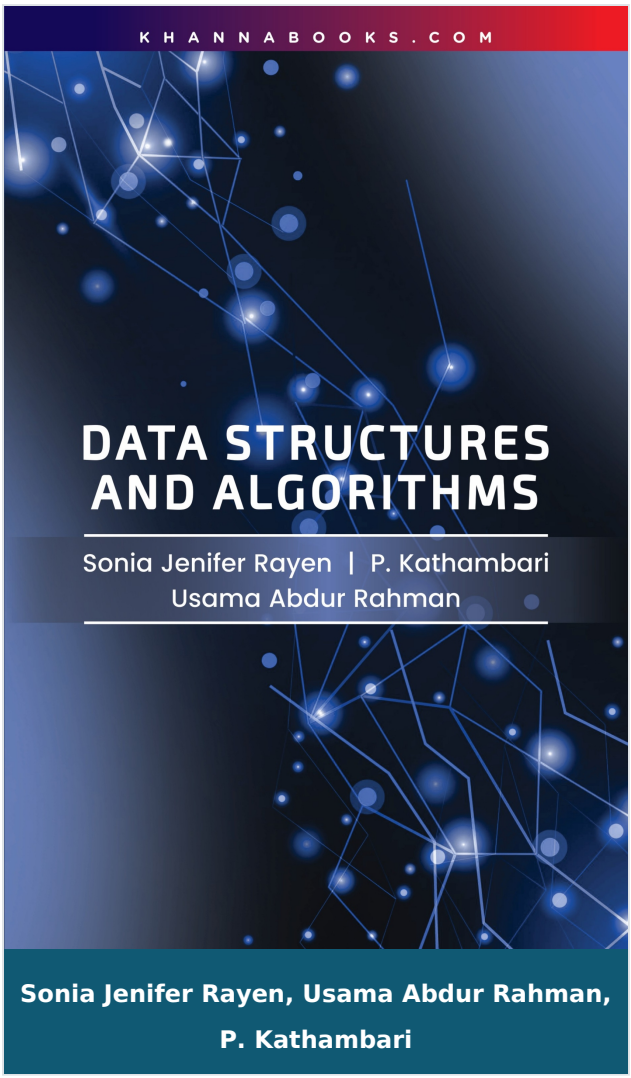


# Data Structures and Algorithm

| | |
|---|---|
| **Author :** | Sonia Jenifer Rayen, Usama Abdur Rahman, P. Kathambari |
| **ISBN 13 :** | 978-93-55384-75-1 |
| **ISBN 10 :** | 9355384750 |
| **E-ISBN 13 :** | 978-93-55384-75-1 |
| **Edition :** | First |
| **Pages :** | 188 |
| **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 |

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## Product Description

In the rapidly evolving landscape of computer science and technology, a foundational mastery of data structures and algorithms is paramount for efficient problem-solving and system design. This essential textbook is specifically designed to offer Computer Science, Information Technology, and allied students, along with educators and aspiring programmers, a broad and easy-to-understand exposition of these key principles.

The book's core purpose is to build a strong, clear, and practical understanding of fundamental concepts, integrating theoretical principles with applied implementation so readers can not only grasp the inherent logic but also implement solutions in real-world computing environments. The text systematically covers traditional structures like Arrays, Linked Lists, Stacks, and Queues, alongside complex non-linear structures such as Trees and Graphs. It then advances to essential algorithm design techniques, including Divide and Conquer, Greedy Algorithms, and Dynamic Programming, and comprehensively covers Searching and Sorting methods.

A key highlight is the dedicated focus on Algorithm Analysis, thoroughly explaining concepts like Time and Space Complexity and Big O notation to ensure readers can develop efficient, optimized solutions. Maintaining an academic yet friendly tone, the book ensures clarity by breaking down complex concepts, supplemented with numerous diagrams, real-life examples, and code snippets, primarily using Python for readability. This text is an indispensable guide for establishing the analytical and coding skills necessary for academic and professional success.

Salient Features:

• Foundational DS: Systematically covers primitive and non-primitive structures like arrays, linked lists, stacks, queues, trees, and graphs, forming the core of computing.

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• Performance Analysis: Explains the crucial concepts of Big O notation, time, and space complexity analysis, enabling the design of optimized and efficient coding solutions.

• Advanced Techniques: Details advanced algorithm design paradigms, including Divide and Conquer, the Greedy approach, Dynamic Programming, and Backtracking for complex problem-solving.

• Practical Coding: Adopts a hands-on approach with numerous code snippets, examples, and diagrams, utilizing Python for clear, readable implementation of concepts.

• Search & Sort Mastery: Provides clear, step-by-step coverage of fundamental operations like linear search, binary search, and various efficient sorting methods (Quick, Merge, Heap).

• Applied Solutions: Explores real-world applications of data structures, such as polynomial manipulation via lists and shortest path problems using Dijkstra's algorithm.

• Conceptual Clarity: Establishes a strong basis by thoroughly defining and differentiating between data, information, and Abstract Data Types (ADT) before implementation.

• Student Focused: Includes chapter-end exercises and problems to reinforce learning, making it an ideal, syllabus-aligned guide for academic and professional preparation.

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**Usama Abdur Rahman**

Usama Abdur Rahman

**P. Kathambari**

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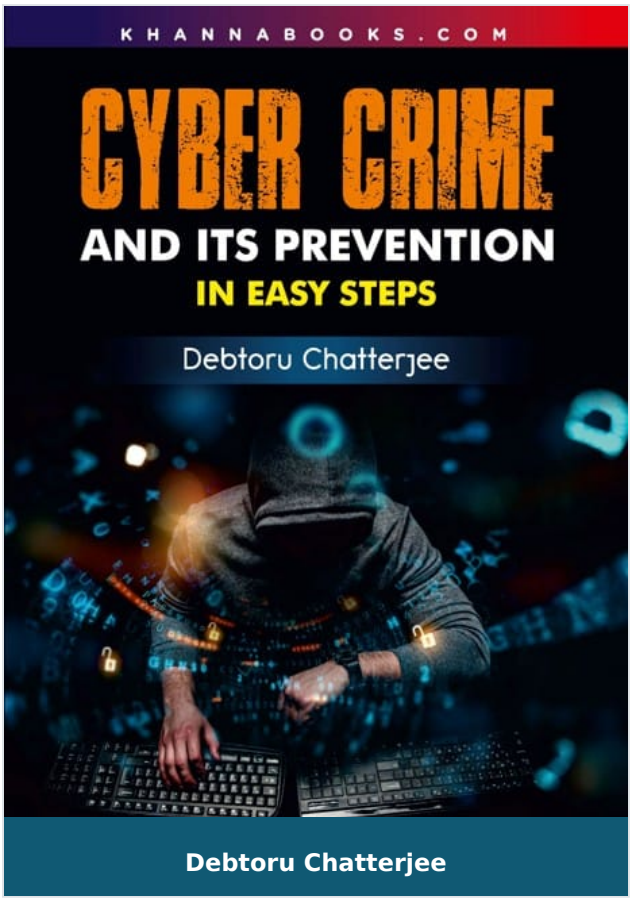


**Debtoru Chatterjee**

# Cyber Crime and its Prevention in Easy Steps

| | |
|---|---|
| **Author :** | Debtoru Chatterjee |
| **ISBN 13 :** | 978-93-55380-74-6 |
| **ISBN 10 :** | 9355380747 |
| **E-ISBN 13 :** | 978-93-55380-74-6 |
| **Edition :** | First |
| **Pages :** | 240 |
| **Type of book :** | Physical |
| **Year :** | 2023 |
| **Language :** | English |
| **Publisher :** | Khanna Publishing House |
| **M.R.P :** | Rs 335.00 |
| **Categories :** | Emerging Technologies, Book Store, Best Sellers |
| **Condition Type :** | New |
| **Country Origin :** | India |

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## Product Description

This book has been divided into two parts. The learning outcomes from each are as follows:

**PART -1**

The reader will gain awareness of how fraudsters:

- acquire one-time passwords via social engineering to commit OTP- based crimes. - exploit vulnerabilities to create false ATMs. - take advantage of poor over-sight mechanisms to remain undetected. - exploit air gaps to manipulate data in transit for fraud. - mislink accounts in a cross-institutional content to syphon off funds. - launder stolen proceeds. - take advantage of default configurations to gain unauthorized network privileges and how to devise counter-measures to deter such frauds.

**PART -2**

The Reader will gain awareness of how:

- hackers break into android smartphones to steal OTP and other confidential information - encrypted information to and from your smartphone or computer can be intercepted - the computer can be hacked with or without social-engineering - websites are scanned for vulnerabilities and exploited - enemy computers are targeted in cyber wars - Security Operations Centers function and tactical and policy measures to counter such threats.

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## Author

**Debtoru Chatterjee**

Debtoru Chatterjee, an Indian Postal Service Officer (1994 batch), has served 11 years in a central police organization, including as an Inspector General, besides a five-year stint as an army Colonel. An honor graduate from Presidency College Calcutta, he holds and M.Sc. (Distinction) in Cyber Forensics and Information Security from the University of Madras; an MBA (IT Systems) (Distinction) from ICFAI; and a Master in Business Laws from National Law School, Bangalore. A keen student of Kali Linux and Python, he has also authored a companion book "Cyber-Crime and its Prevention in Easy Steps".

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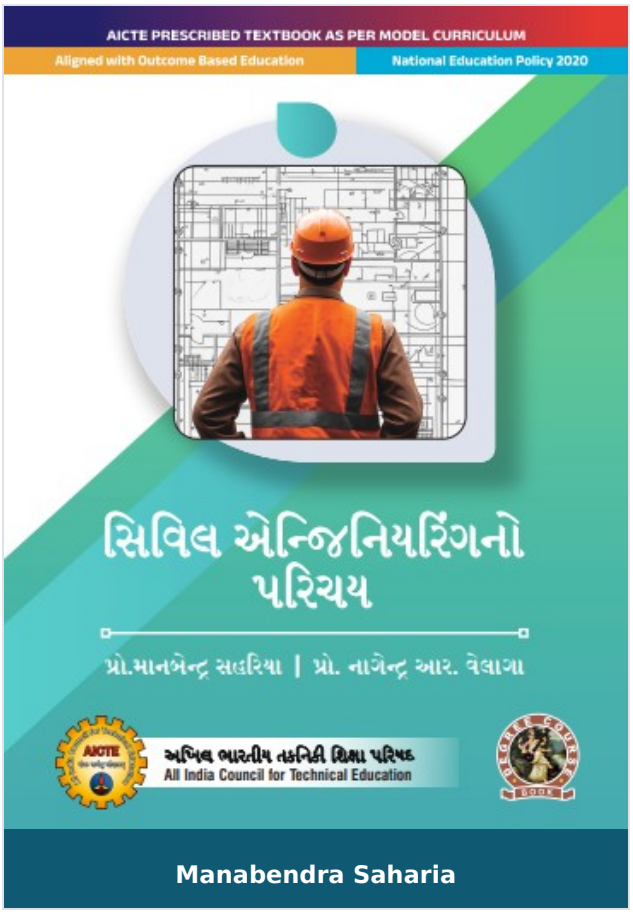


# Introduction to Civil Engineering

| | |
|---|---|
| **Author :** | Manabendra Saharia |
| **ISBN 13 :** | 978-93-55383-92-1 |
| **ISBN 10 :** | 9355383924 |
| **E-ISBN 13 :** | 978-93-55383-92-1 |
| **Edition :** | First |
| **Pages :** | 220 |
| **Type of book :** | Physical |
| **Year :** | 2026 |
| **Language :** | English |
| **Publisher :** | Khanna Publishing House |
| **M.R.P :** | Rs 348.00 |
| **Categories :** | AICTE Prescribed Textbooks, Gujarati Books, Book Store |
| **Condition Type :** | New |
| **Country Origin :** | India |

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# Engineering Graphics & Design

| | |
|---|---|
| **Author :** | Pradeep Jain |
| **ISBN 13 :** | 978-93-55381-38-5 |
| **ISBN 10 :** | 9355381387 |
| **E-ISBN 13 :** | 978-93-55381-38-5 |
| **Edition :** | 1 |
| **Pages :** | 312 |
| **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

This textbook “Engineering Graphics and Design” is based on the latest outcome based model curriculum of the AICTE. The book covers complete syllabus catering requirements of all major technical universities and institutes and provides insights into traditional engineering graphics as well as treats of the subject using 2D and 3D design software. It offers technical details, current standard, real world examples and clearly explains theory and technique in highly visual and concise format. The topic covered in this book are arranged into 9 chapters comprising self-explanatory diagrams and solved examples.

Salient Features:

1. Introduction of Engineering Drawing.
2. Orthographic Projection.
3. Projection of Solids.
4. Section of Solids and Development of Surfaces.
5. Isometric Projection.
6. Overview of Computer Graphics.
7. CAD Drawing.
8. Solid Modelling.
9. Team Design Project.

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## Author

**Pradeep Jain**

Pradeep Jain has 15 years of experience in teaching and industry in CAD/CAM. presently he is working as an associate professor in the Department of Mechanical Engineering, Ajay Kumar Garg Engineering College, Ghaziabad. He is providing training and consultancy in CAD/ CAM field.

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# Applied Physics-I (with Lab Manual)

| | |
|---|---|
| **Author :** | V. K. Yadav, Mina Talati |
| **ISBN 13 :** | 978-93-91505-92-9 |
| **ISBN 10 :** | 9391505929 |
| **E-ISBN 13 :** | 978-93-91505-92-9 |
| **Edition :** | First |
| **Pages :** | 272 |
| **Type of book :** | Physical |
| **Year :** | 2022 |
| **Language :** | English |
| **Publisher :** | Khanna Publishing House |
| **M.R.P :** | Rs 395.00 |
| **Categories :** | AICTE Prescribed Textbooks, Tamil Books, Book Store, Ebooks |
| **Condition Type :** | New |
| **Country Origin :** | India |

## Product Description

“Applied Physic-l” 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.

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- Force and Motion
- Work, Power and energy
- Rotational Motion
- Properties of Matter
- heat and Thermometry
- Annexes
- Appendices
- Index


## Author


**V. K. Yadav**

V. K. Yadav

**Mina Talati**

Mina Talati



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

| | |
|---|---|
| **Author :** | Reena Garg |
| **ISBN 13 :** | 978-93-91505-19-6 |
| **ISBN 10 :** | 9391505198 |
| **E-ISBN 13 :** | 978-93-91505-19-6 |
| **Edition :** | 1 |
| **Pages :** | 688 |
| **Type of book :** | Physical |
| **Year :** | 2025 |
| **Language :** | English |
| **Publisher :** | Khanna Publishing House |
| **M.R.P :** | Rs 295.00 |
| **Categories :** | AICTE Prescribed Textbooks, Telugu Books, Book Store, Ebooks |
| **Condition Type :** | New |
| **Country Origin :** | India |

## Product Description

Calculus and Linear Algebra covers all the modules prescribed by AICTE model curriculum to all the 1st year CSE students 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, algebra and vector spaces 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. Professional 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

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- Calculus-I.
- Calculus-II.
- Matrices
- Vector.
- Spaces –I
- Vector Spaces – II.
- Index
- CO and Po Attainment Table.


## Author

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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

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book more valuable for the knowledge seekers.She has published more than 10 research 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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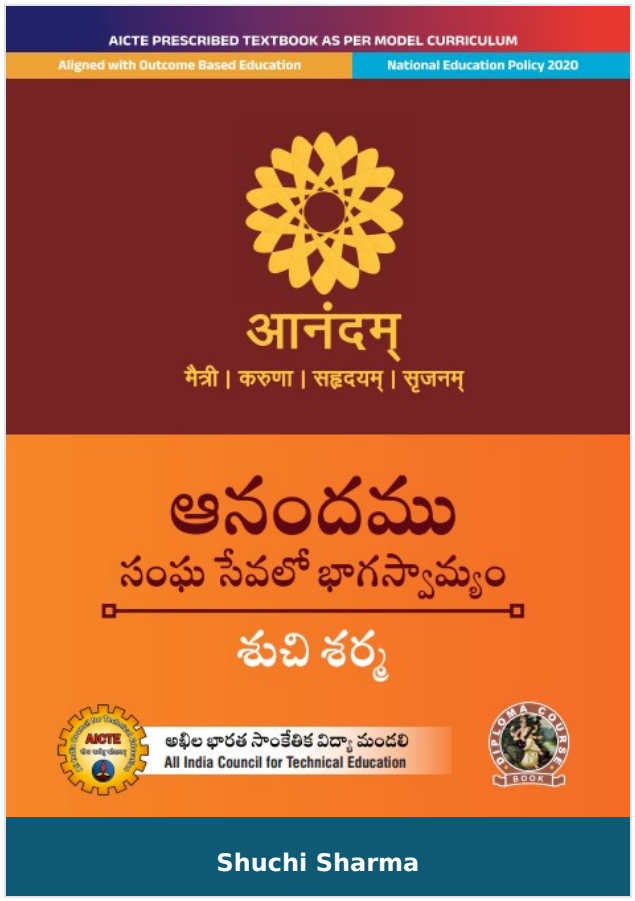


# Aanandam An Act of Community Service

| | |
|---|---|
| **Author :** | Shuchi Sharma |
| **ISBN 13 :** | 978-93-55383-40-2 |
| **ISBN 10 :** | 9355383401 |
| **E-ISBN 13 :** | 978-93-55383-40-2 |
| **Edition :** | First |
| **Pages :** | 88 |
| **Type of book :** | Physical |
| **Year :** | 2026 |
| **Language :** | English |
| **Publisher :** | Khanna Publishing House |
| **M.R.P :** | Rs 148.00 |
| **Categories :** | AICTE Prescribed Textbooks, Telugu Books, Book Store |
| **Condition Type :** | New |
| **Country Origin :** | India |

## Product Description

Aanandam An Act of Community Service

**Khanna Publishing House**

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**Shuchi Sharma**

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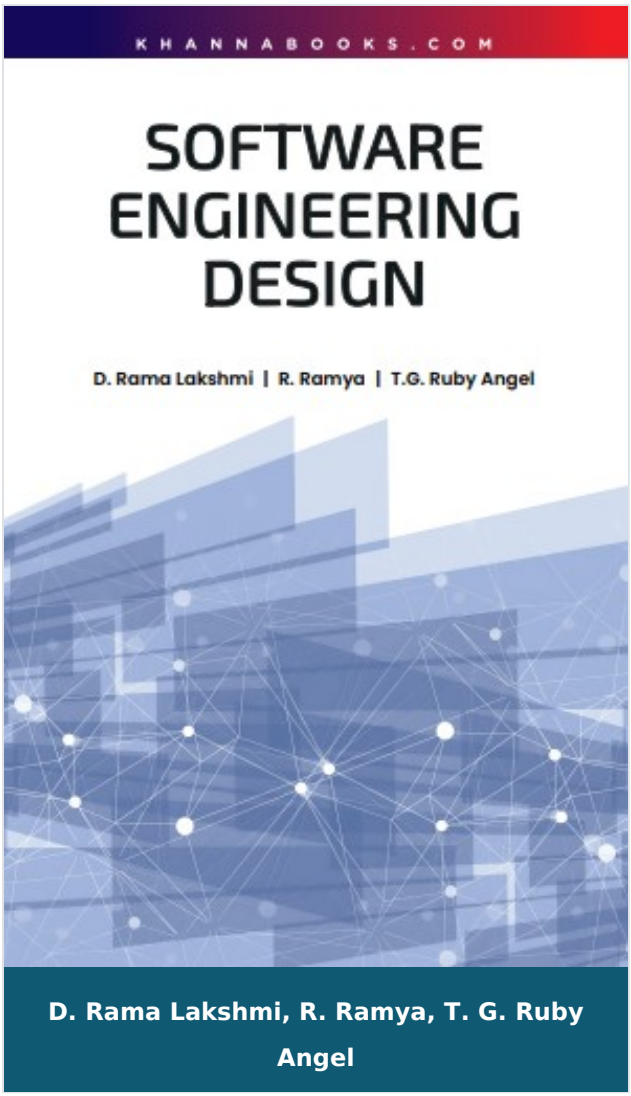


**D. Rama Lakshmi, R. Ramya, T. G. Ruby Angel**

# Software Engineering Design

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|---|---|
| **Author :** | D. Rama Lakshmi, R. Ramya, T. G. Ruby Angel |
| **ISBN 13 :** | 978-93-55384-27-0 |
| **ISBN 10 :** | 9355384270 |
| **E-ISBN 13 :** | 978-93-55384-27-0 |
| **Edition :** | First |
| **Pages :** | 180 |
| **Type of book :** | Physical |
| **Year :** | 2026 |
| **Language :** | English |
| **Publisher :** | Khanna Publishing House |
| **M.R.P :** | Rs 298.00 |
| **Categories :** | New Arrivals, Book Store, Sathyabama Series |
| **Condition Type :** | New |
| **Country Origin :** | India |

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

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## Product Description

### Software Engineering Design

Software Engineering Design is a comprehensive guide to the foundational discipline that dictates the success, scalability, and maintainability of all modern software systems. Recognizing that software design is at the heart of technological advancements, this essential resource transforms the complex challenges of system design into a structured, manageable process. Its core purpose is to bridge the gap between theoretical foundations and real-world applications, ensuring that readers gain both a vital conceptual understanding and practical expertise in creating robust software solutions.

The book covers the entire spectrum of the software development lifecycle. It begins with an exploration of various Software Life Cycle Models—from linear methods like the Waterfall Model to adaptive Agile methodologies. The text then provides a deep dive into Requirement Engineering, focusing on crucial tasks like requirements modeling (DFD, ERD) and rigorous validation, before moving into the central System Design phase. Here, readers learn about popular architectural paradigms (Layered, Data-Centered) and objective metrics, such as Coupling and Cohesion, used to measure the "goodness" of a design. The content concludes with a focus on Testing & Quality Assurance (Verification and Validation) and key management aspects, including risk mitigation (RMMM) and project estimation (COCOMO).

This text is specifically tailored for a broad audience: students beginning their academic journey, as well as experienced professionals and practitioners seeking to refine their design skills. By imparting technical knowledge and fostering a necessary design-oriented mindset, this book serves as an invaluable companion for building systems that are efficient, reliable, and sustainable.

**Salient Features:**

- **Structured Life Cycles**: Explore fundamental Software Life Cycle Models (Waterfall, Spiral, Prototyping) and modern, iterative approaches like Agile methodologies to ensure efficient project management and successful risk mitigation.
- **Precise Requirements:** Details the systematic process of Requirements Engineering, covering elicitation, visual modeling (DFD, ERD), and rigorous validation to align the final product with core business and user needs.
- **Core Design Architectures**: Focuses on System Design principles, exploring essential architectural paradigms such as Layered Systems, Data-Centered Systems, and the critical transition from requirements analysis to a final blueprint.
- **Design Quality Metrics**: Provides essential methods for quantifying design effectiveness, specifically detailing the metrics of Coupling and Cohesion to guide students and professionals toward building maintainable and robust software.
- **Quality Assurance & Testing**: Integrates the continuous processes of Verification and Validation (V&V), covering the various Levels of Testing and approaches (Functional/Non-Functional) required to achieve a high-performance system.
- **Project Management Tools**: Covers Umbrella Activities such as Risk Management (RMMM), Software Quality Assurance (SQA), and project cost/time estimation using industry models like the well-known COCOMO model.
- **Evolution & Reengineering**: Discusses software evolution through different forms of Maintenance (Corrective, Adaptive, Preventive) and the techniques of Software Reengineering to enhance system longevity and scalability.
- **Agile and DevOps Focus**: Offers a practical overview of Agile methodologies (Scrum, Kanban, Lean) and the principles of DevOps to facilitate rapid development, continuous integration, and seamless collaboration across teams.

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- Software Life
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- Software Design
- Testing
- Umbrella Activities & Project Management and Estimation


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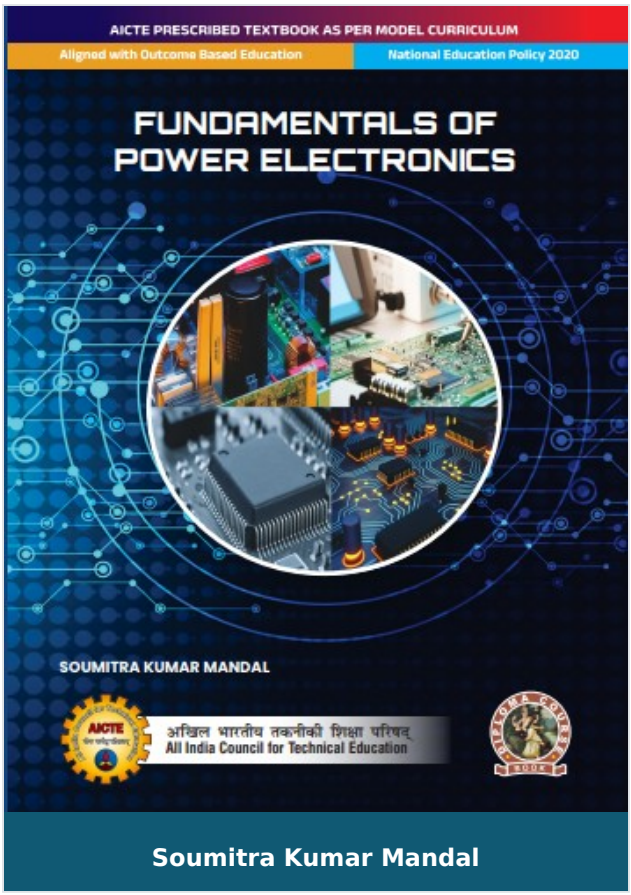


# Fundamentals of Power Electronics

| | |
|---|---|
| **Author :** | Soumitra Kumar Mandal |
| **ISBN 13 :** | 978-93-55387-24-0 |
| **ISBN 10 :** | 9355387245 |
| **E-ISBN 13 :** | 978-93-55387-24-0 |
| **Edition :** | First |
| **Pages :** | 340 |
| **Type of book :** | Physical |
| **Year :** | 2026 |
| **Language :** | English |
| **Publisher :** | Khanna Publishing House |
| **M.R.P :** | Rs 598.00 |
| **Categories :** | AICTE Prescribed Textbooks, English Books, Book Store |
| **Condition Type :** | New |
| **Country Origin :** | India |

## Product Description

### Fundamentals of Power Electronics

The Fundamentals of Power Electronics are well established and nowadays all power electronics devices are used in control of ac and Household applications. It is essential for ECE, Industrial Electronics, EEE and Electrical diploma holders. This book is basic for new learners. This book introduces the concept of power electronics, construction, working principle, V-1 characteristics of power semiconductor devices such as power BJT, Power MOSFET, IGBT, Thyristor, SCR, LASCR, SCS, GTO, UJT, PUT, DIAC and TRIAC, SET and Nano-technology, turn-on and turn-off methods of thyristors, different triggering circuits, commutation

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

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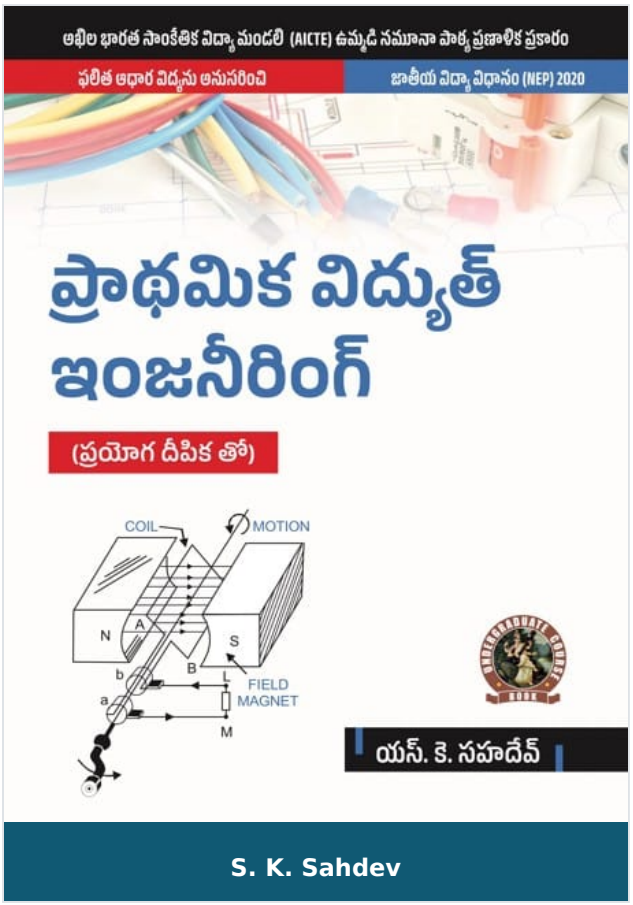


# Basic Electrical Engineering (Theory & Lab)

| | |
|---|---|
| **Author :** | S. K. Sahdev |
| **ISBN 13 :** | 978-93-91505-72-1 |
| **ISBN 10 :** | 9391505724 |
| **E-ISBN 13 :** | 978-93-91505-72-1 |
| **Edition :** | 1 |
| **Pages :** | 488 |
| **Type of book :** | Physical |
| **Year :** | 2025 |
| **Language :** | English |
| **Publisher :** | Khanna Publishing House |
| **M.R.P :** | Rs 295.00 |
| **Categories :** | AICTE Prescribed Textbooks, Telugu Books, Book Store, Ebooks |
| **Condition Type :** | New |
| **Country Origin :** | India |

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## Product Description

This textbook “Basic Electrical Engineering” is based on the latest syllabus of the Universities AICTE and Educational Institutes. In this edition, some material of the book has been rewritten to make the presentation easily comprehensible. More illustrative examples mainly from IAS, IES and GATE and other competitive examinations have been added. Various problems with answers have been added to support the text. For quick revision, summary/ highlights are given at the end of each chapter.

Salient Features:

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2. AC Circuits.
3. Transformers.
4. Electrical Machines.
5. Power Converters.
6. Electrical Installations.

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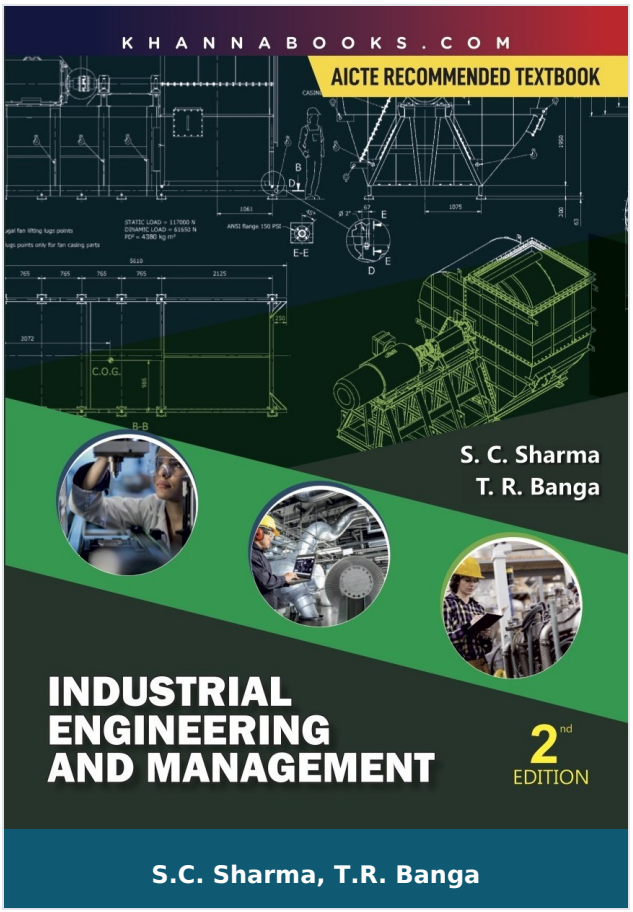


# Industrial Engineering and Management

| | |
|---|---|
| **Author :** | S.C. Sharma, T.R. Banga |
| **ISBN 13 :** | 978-93-55380-09-8 |
| **ISBN 10 :** | 9355380097 |
| **E-ISBN 13 :** | 978-93-55380-09-8 |
| **Edition :** | Second |
| **Pages :** | 848 |
| **Type of book :** | Physical |
| **Year :** | 2025 |
| **Language :** | English |
| **Publisher :** | Khanna Publishing House |
| **M.R.P :** | Rs 550.00 |
| **Categories :** | Civil Engineering, Civil Engineering, Book Store, Best Sellers |
| **Condition Type :** | New |
| **Country Origin :** | India |

## Product Description

The book “Industrial Engineering Management” Covers the syllabus of the subjects Industrial Engineering, Industrial management, Production Planning and Control, Production Management, Engineering Economics and Costing, Industrial Organization, Principles of management courses, section B of AIME, and U.P.S.C Engineering Services Examination. Efforts have been made to present the subject matter in concise, compact and simple language. The theoretical concepts have been supported by large number of numerical illustrations to provide clarity.

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- Financial Management
- Indirect Expense and Depreciation
- Elements of Economics (Economic Concepts)
- Engineering and Managerial Economics
- Break-Even Analysis
- Equipment for Costs, Costing and Cost Control
- Environmental Pollution and Control

## Author

**S.C. Sharma**

S.C. Sharma after graduation in 1966 joined as lecturer in Mechanical Engineering. He had been associated for more than 4 decades in various fields including learning and management of projects in India and abroad in different capacities. While working Hydro power projects for more than 15 years he has actively associated with various environmental and rehabilitation & resettlement issues and successfully resolved various complicated issues. He has also worked as consultant for matters related to safety, environment and R & R. He has written about a dozen books on subjects related to engineering and management including management of projects.

**T.R. Banga**

T.R. Banga He is Formerly Principal Govt. Polytechnic , Alwar Rajasthan