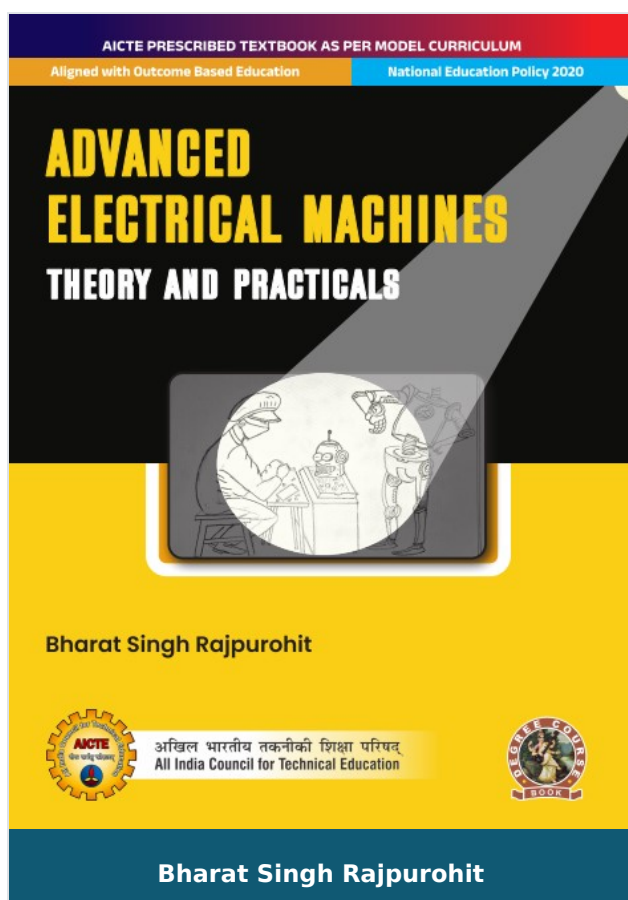




## Advanced Electrical Machines: Theory and Practicals

**Author :** Bharat Singh Rajpurohit

**ISBN 13 :** 978-93-55382-16-0

**ISBN 10 :** 9355382162

**E-ISBN 13 :** 978-93-55382-16-0

**Edition :** First

**Pages :** 456

**Type of book :** Physical

**Year :** 2026

**Language :** English

**Publisher :** Khanna Publishing House

**M.R.P :** Rs 798.00

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

**Condition Type :** New

**Country Origin :** India

## Product Description

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### Advanced Electrical Machines: Theory and Practicals

“Advanced Electrical Machines: Theory and Practical’s” is a course that equips engineering students with a comprehensive understanding of advanced concepts in AC electrical machines, enabling them to analyze, design, and evaluate machine performance. This textbook offers a well-structured, student friendly introduction to AC machines, specifically tailored for fourth semester undergraduate students of core engineering branches. Drawing upon the AICTE’s revised model curriculum, the material presents a balanced integration of theory and practical applications. It covers key topics such as the fundamentals of AC machine windings, the behavior of pulsating and revolving magnetic fields, the operational characteristics of induction and synchronous machines, and single-phase motor theory. Emphasis is placed on understanding the underlying electromagnetic principles, performance characteristics, and modern methods for control and testing. Book will help students in building a strong foundation and to gain both analytical and practical competencies. By the end of this course, students will be able to understand, analyze, and characterize the AC machines.

#### Salient Features:

- Content of the book aligned with the mapping of Course Outcomes, Program Outcomes, and Unit Outcomes.
- At the beginning of each unit learning outcomes are listed to make the student understand what is expected of him/her after completing that unit.
- The book provides a lot of recent information, interesting facts, references for further reading, simulation codes, etc.
- Student and teacher-centric subject materials included in the book in a balanced and chronological manner.

- Figures, tables, and output waveforms are included to improve the clarity of the topics.
- Apart from essential information a 'Know More' section is also provided in each unit to extend the learning beyond the syllabus.
- At the end of each chapter, short questions, objective questions, and long answer exercises are given for the students to practice.
- Problems including numerical examples are solved with systematic steps provided.

## Table Of Contents

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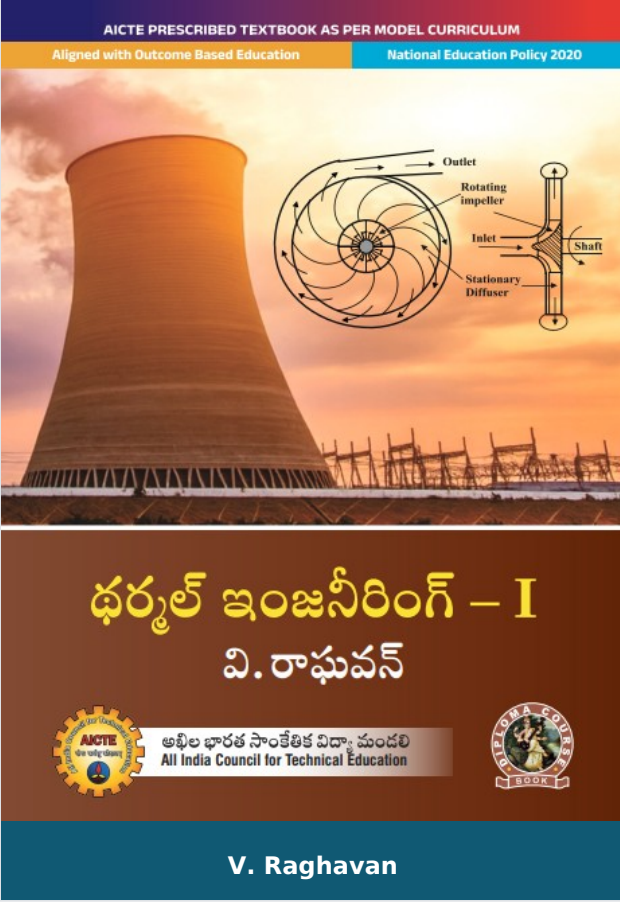
- Foreword
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- Guidelines for Students
- List of Figures
- Fundamentals of AC Machine Windings
- Pulsating and Revolving Magnetic Fields
- Induction Machines
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- Synchronous Machines
- Advanced Electrical Machines: Curriculum Experiments
- Unit summary
- References and suggested readings
- Further Reading
- References for Further Learning
- CO and PO Attainment Table
- Index

## Author

---

**Bharat Singh Rajpurohit**

Dr. Bharat Singh Rajpurohit Professor, Department of Electrical Engineering Indian  
Institute of Technology Jodhpur, Karwar-342030, Jodhpur, Rajasthan, India



## Thermal Engineering - I

**Author :** V. Raghavan

**ISBN 13 :** 978-93-55383-47-1

**ISBN 10 :** 9355383479

**E-ISBN 13 :** 978-93-55383-47-1

**Edition :** First

**Pages :** 268

**Type of book :** Physical

**Year :** 2026

**Language :** English

**Publisher :** Khanna Publishing House

**M.R.P :** Rs 425.00

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

**Condition Type :** New

**Country Origin :** India

## Product Description

---

### Thermal Engineering - I

This book introduces various energy sources; fossil and renewable fuels, their properties, followed by other non-conventional sources such as nuclear and fuel cells. It discusses the types of heat engines; diesel engine, petrol engine, their working principle, components and standard thermodynamic cycles. The book provides insights of various system and IC engines such as fuel injection system, ignition system, lubricating system and also briefly covers governing of IC engines. Further this book provides basic insights of the important parameters to evaluate the performance of I.C. engines. Finally, useful discussions on the fundamentals of air compressors and their types, vapour compression refrigeration system, types of refrigerants, types of air conditioning, and seasonal air conditioning. This book also presents the method to conduct experiments for measuring Important properties used in the analysis.

### 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.

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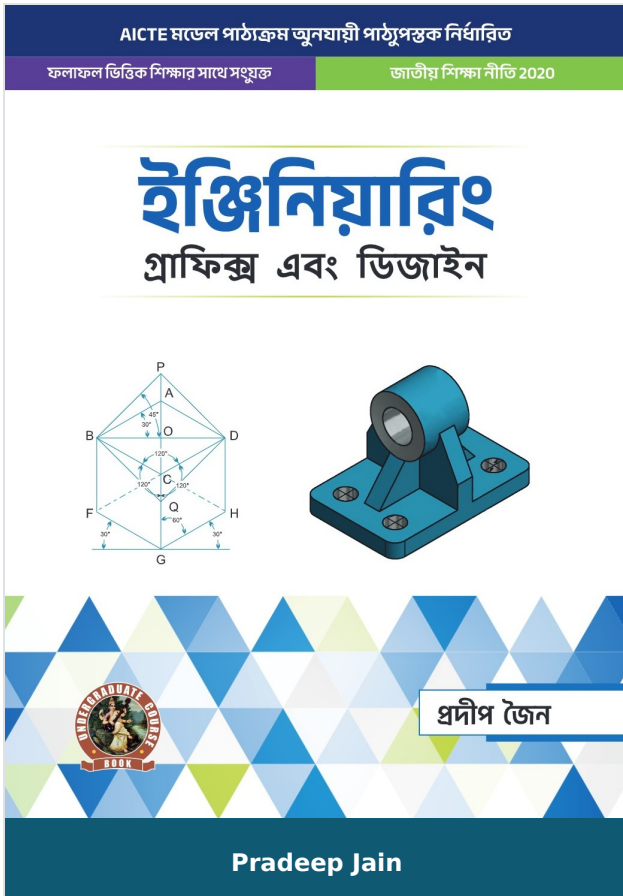
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- C. Engine Systems.
- Performance of I.C. Engines.
- Air Compressors, Refrigeration & Air Conditioning
- CO and PO Attainment Table
- Index

## Author

---

**V. Raghavan**

Dr. V. Raghavan



## Engineering Graphics & Design

**Author :** Pradeep Jain

**ISBN 13 :** 978-93-55381-08-8

**ISBN 10 :** 9355381085

**E-ISBN 13 :** 978-93-55381-08-8

**Edition :** 1

**Pages :** 264

**Type of book :** Physical

**Year :** 2025

**Language :** English

**Publisher :** Khanna Publishing House

**M.R.P :** Rs 295.00

**Categories :** [AICTE Prescribed Textbooks,](#)  
[Bengali Books, Book Store,](#)  
[Ebooks](#)

**Condition Type :** New

**Country Origin :** India

## Product Description

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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.

## Table Of Contents

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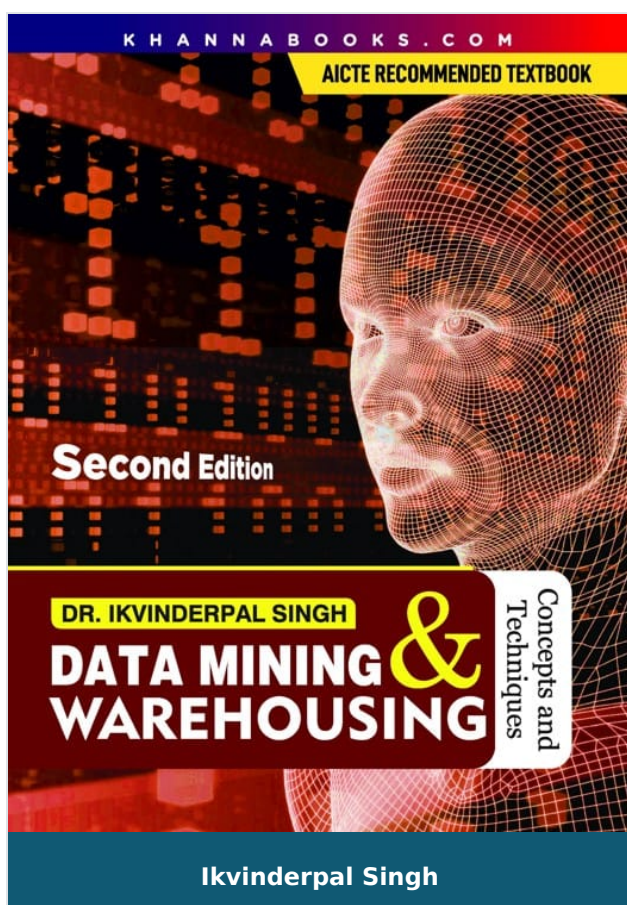
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- Guidelines for Students
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- Orthographic Projection.
- Projection of Solids.
- Sectional Views of Solids.
- Isometric Projection.
- Overview of Computer Graphics.
- Customization & CAD.
- Annotation Layers and 3D Modelling.
- Projects.
- Reference
- CO and Po Attainment Table
- Index.

## 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.



## Data Mining & Warehousing

|                         |                                                                                                                                                                          |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Author :</b>         | Ikvinderpal Singh                                                                                                                                                        |
| <b>ISBN 13 :</b>        | 978-93-55387-02-8                                                                                                                                                        |
| <b>ISBN 10 :</b>        | 9355387024                                                                                                                                                               |
| <b>E-ISBN 13 :</b>      | 978-93-55387-02-8                                                                                                                                                        |
| <b>Edition :</b>        | 2                                                                                                                                                                        |
| <b>Pages :</b>          | 342                                                                                                                                                                      |
| <b>Type of book :</b>   | Physical                                                                                                                                                                 |
| <b>Year :</b>           | 2024                                                                                                                                                                     |
| <b>Language :</b>       | English                                                                                                                                                                  |
| <b>Publisher :</b>      | Khanna Publishing House                                                                                                                                                  |
| <b>M.R.P :</b>          | Rs 499.00                                                                                                                                                                |
| <b>Categories :</b>     | <a href="#">Computer Science Engineering,</a><br><a href="#">UNIVERSITY RECOMMENDED,</a><br><a href="#">Computer Science Engineerings,</a><br><a href="#">Book Store</a> |
| <b>Condition Type :</b> | New                                                                                                                                                                      |
| <b>Country Origin :</b> | India                                                                                                                                                                    |

## Product Description

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This book has numerous features that make it a winner, The order of topics is very logical, The choice of topics is quite appropriate for a comprehensive introductory book. The subject matter is logically structured, with chapters covering essential components of the data mining and warehousing field. The sequence of topics is well planned to provide a seamless transition from design to implementation. Within each chapter, the continuity of topics is excellent. The figures appropriately enhance and amplify the topics. The exercises can be found at the end of each chapter.

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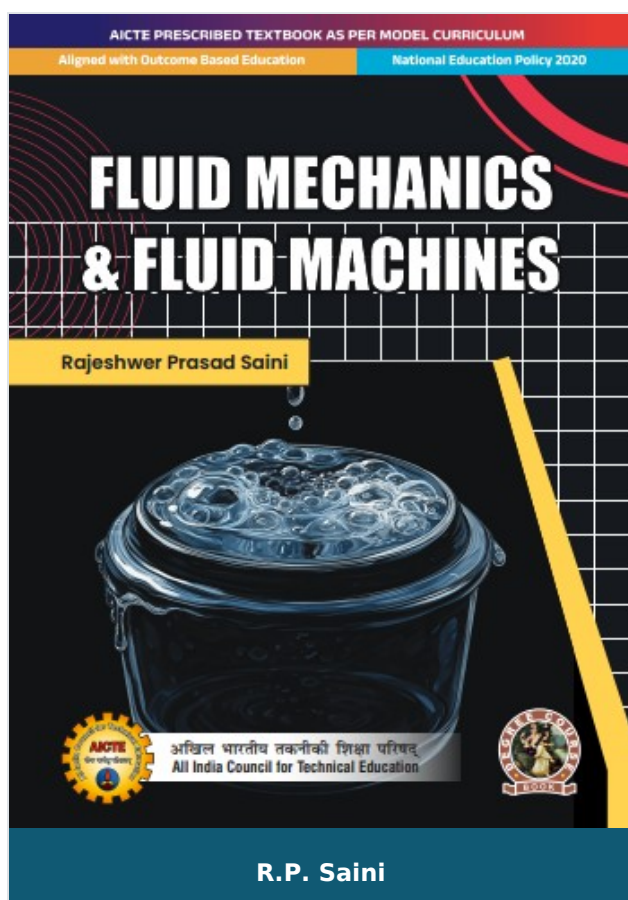
- Data Warehousing
- Multidimensional Data Model
- Data Warehousing Architecture
- Online Analytical Processing
- Data Warehouse Implementation
- Data Warehouse Back-End tools And Utilities
- Data Mining
- Applications And Trends In Data Mining

## 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.



## Fluid Mechanics & Fluid Machines

|                         |                                                                                          |
|-------------------------|------------------------------------------------------------------------------------------|
| <b>Author :</b>         | R.P. Saini                                                                               |
| <b>ISBN 13 :</b>        | 978-93-55388-37-7                                                                        |
| <b>ISBN 10 :</b>        | 9355388373                                                                               |
| <b>E-ISBN 13 :</b>      | 978-93-55388-37-7                                                                        |
| <b>Edition :</b>        | First                                                                                    |
| <b>Pages :</b>          | 252                                                                                      |
| <b>Type of book :</b>   | Physical                                                                                 |
| <b>Year :</b>           | 2026                                                                                     |
| <b>Language :</b>       | English                                                                                  |
| <b>Publisher :</b>      | Khanna Publishing House                                                                  |
| <b>M.R.P :</b>          | Rs 464.00                                                                                |
| <b>Categories :</b>     | <a href="#">AICTE Prescribed Textbooks,</a><br><a href="#">English Books, Book Store</a> |
| <b>Condition Type :</b> | New                                                                                      |
| <b>Country Origin :</b> | India                                                                                    |

**Khanna Publishing House**

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

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

## Product Description

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### Fluid Mechanics & Fluid Machines

This book familiarizes the students to different domains of Fluid Mechanics & Fluid Machines. This covers fundamentals of fluid mechanics, fluid dynamics, dimensional analysis, water turbines and pumps. Main purpose of the book is to help students and researchers to understand and apply the fundamentals to applications in engineering problems. The main content of this book is aligned with the model curriculum of AICTE followed by concept of outcome-based education as per National Education Policy (NEP) 2020.

### Salient Features:

- Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.
- In start 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

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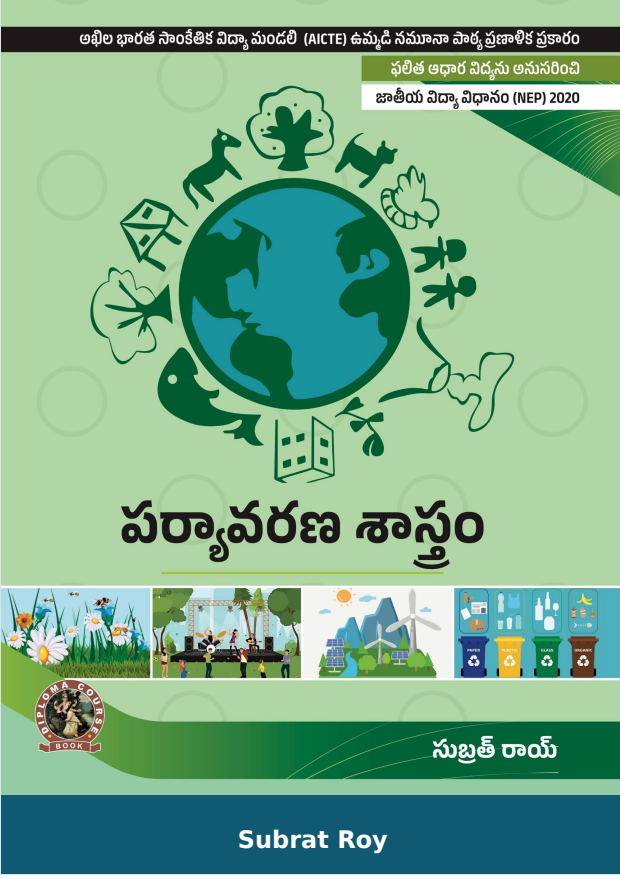
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- Fluid Dynamics
- Dimensional Analysis
- Fluid Machines – Pumps
- Fluid Machines – Water Turbines
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## Author

---

**R.P. Saini**

Dr. R.P. Saini Department of Hydro and Renewable Energy Indian Institute of Technology  
Roorkee



## Environmental Science

|                         |                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------|
| <b>Author :</b>         | Subrat Roy                                                                                      |
| <b>ISBN 13 :</b>        | 978-93-91505-38-7                                                                               |
| <b>ISBN 10 :</b>        | 9391505384                                                                                      |
| <b>E-ISBN 13 :</b>      | 978-93-91505-38-7                                                                               |
| <b>Edition :</b>        | 1                                                                                               |
| <b>Pages :</b>          | 148                                                                                             |
| <b>Type of book :</b>   | Physical                                                                                        |
| <b>Year :</b>           | 2025                                                                                            |
| <b>Language :</b>       | English                                                                                         |
| <b>Publisher :</b>      | Khanna Publishing House                                                                         |
| <b>M.R.P :</b>          | Rs 295.00                                                                                       |
| <b>Categories :</b>     | <a href="#">AICTE Prescribed Textbooks,</a><br><a href="#">Telugu Books, Book Store, Ebooks</a> |
| <b>Condition Type :</b> | New                                                                                             |
| <b>Country Origin :</b> | India                                                                                           |

## Product Description

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“Environmental Science” is an audit course for the first year Diploma programme 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.

Book covers four units- Ecosystem, Air and Noise Pollution, Renewable Sources of Energy and Solid waste management, ISO 14000 & Environmental Management, Every unit contains as 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 aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.
2. Book provides lots of recent information, interesting facts, QR Code for E-resources, QR Code for use of ICT, projects, group discussion etc.
3. Student and teacher centric subject materials included in book with balanced and chronological manner.
4. Figures and tables are insert to improve clarity of the topics.
5. Objective questions, Short questions and long answer exercise given for practice of students after every unit.

## Table Of Contents

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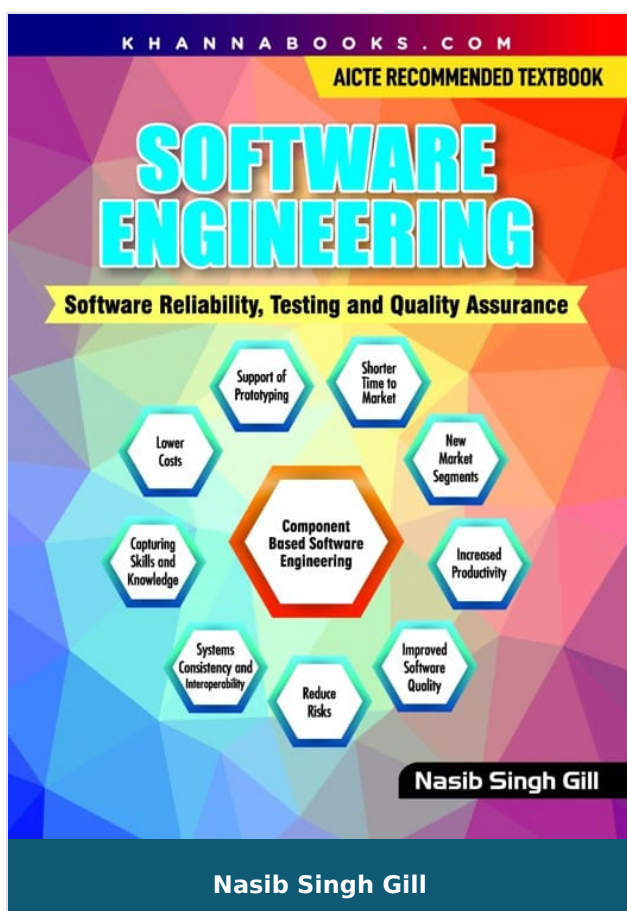
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- Air and Noise pollution.
- Renewable sources of Energy.
- Soil waste Management, ISO 14000& Environmental management.
- Important Day Related to Environment
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## Author

---

**Subrat Roy**

Subrat Roy



## Software Engineering

|                         |                                                                                                                         |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Author :</b>         | Nasib Singh Gill                                                                                                        |
| <b>ISBN 13 :</b>        | 978-81-90611-63-3                                                                                                       |
| <b>ISBN 10 :</b>        | 8190611631                                                                                                              |
| <b>E-ISBN 13 :</b>      | 978-81-90611-63-3                                                                                                       |
| <b>Edition :</b>        | 1                                                                                                                       |
| <b>Pages :</b>          | 656                                                                                                                     |
| <b>Type of book :</b>   | Physical                                                                                                                |
| <b>Year :</b>           | 2025                                                                                                                    |
| <b>Language :</b>       | English                                                                                                                 |
| <b>Publisher :</b>      | Khanna Publishing House                                                                                                 |
| <b>M.R.P :</b>          | Rs 498.00                                                                                                               |
| <b>Categories :</b>     | <a href="#">UNIVERSITY RECOMMENDED,</a><br><a href="#">Computer Science Engineerings,</a><br><a href="#">Book Store</a> |
| <b>Condition Type :</b> | New                                                                                                                     |
| <b>Country Origin :</b> | India                                                                                                                   |

## Product Description

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Each and every chapter covers the contents up to a reasonable depth necessary for the intended readers in the field. The book consists in all about 1200 exercises based on the topics and sub-topics covered. Keeping in view the emerging trends in newly emerging scenario with new dimension of software engineering, the book specially includes the following chapters, but not limited to these only. This book explains all the notions related to software engineering in a very systematic way, which is of utmost importance to the novice readers in the field of software Engineering.

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- Historical Evolution of Software Engineering
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- Software Project Management
- Software Project Estimation and Risk Management
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- Software Design Fundamentals
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- Coding
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- Software Measures, Metrics and Models
- Software Quality and Quality Assurance
- Software Quality Standards and Models
- Software Reliability and Reliability Models
- Software Safety and Hazard Analysis
- Computer Aided Software Engineering (CASE) Tools
- Software Maintenance and Maintenance Costs
- Software Configuration Management
- Software Reuse and Activities
- Component- Based Software Engineering
- Software Architecture
- Software Documentation

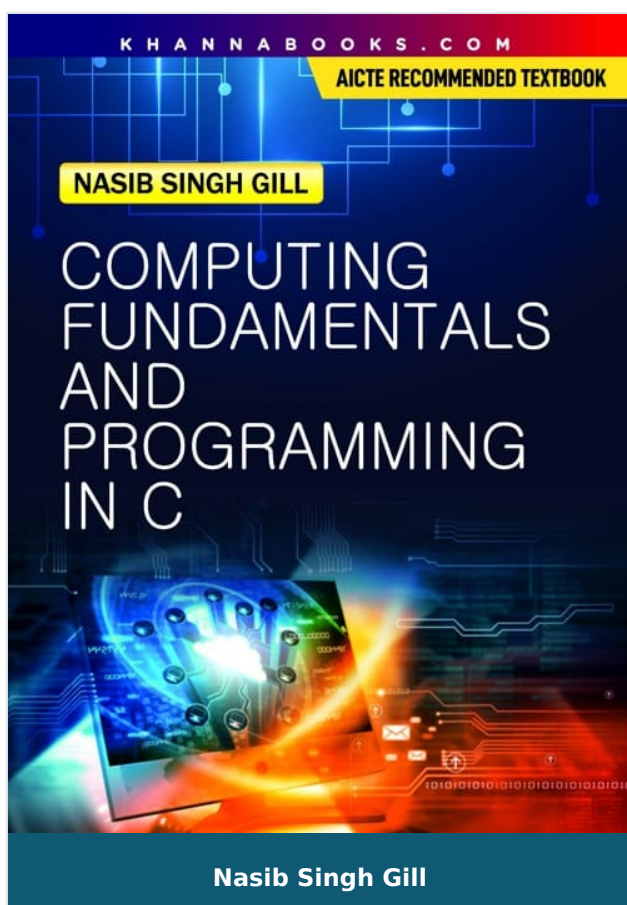
- Software Re-engineering

## 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'



## Computing Fundamentals and Programming in C

|                         |                                                                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>Author :</b>         | Nasib Singh Gill                                                                                                                     |
| <b>ISBN 13 :</b>        | 978-93-81068-50-2                                                                                                                    |
| <b>ISBN 10 :</b>        | 938106850X                                                                                                                           |
| <b>E-ISBN 13 :</b>      | 978-93-81068-50-2                                                                                                                    |
| <b>Edition :</b>        | First                                                                                                                                |
| <b>Pages :</b>          | 856                                                                                                                                  |
| <b>Type of book :</b>   | Physical                                                                                                                             |
| <b>Year :</b>           | 2025                                                                                                                                 |
| <b>Language :</b>       | English                                                                                                                              |
| <b>Publisher :</b>      | Khanna Publishing House                                                                                                              |
| <b>M.R.P :</b>          | Rs 625.00                                                                                                                            |
| <b>Categories :</b>     | <a href="#">Computer Science Engineering,</a><br><a href="#">UNIVERSITY RECOMMENDED,</a><br><a href="#">Book Store, Best Sellers</a> |
| <b>Condition Type :</b> | New                                                                                                                                  |
| <b>Country Origin :</b> | India                                                                                                                                |

## Product Description

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The complete spectrum of computing fundamentals starting from abc of computer to internet usage has been well covered in simple and readers loving style, The language used in the book is lucid, is easy to understand, and facilitates easy grasping of concepts, The chapter have been logically arranged in sequence, The book is written in a reader-friendly manner both 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, Sufficient exercises have been included for practice in addition to the solved examples in every chapter related to C programming, Concepts of pointers, structures, Union and file management have been extensively detailed to help advance learners, Adequate exercises have been given at the end of the every chapter, Pedagogy followed for sequencing the contents on C programming supported by adequate programming examples is likely to help the reader to become proficient very soon, 200 problems on C programming & their solutions, 250 Additional descriptive questions on C programming.

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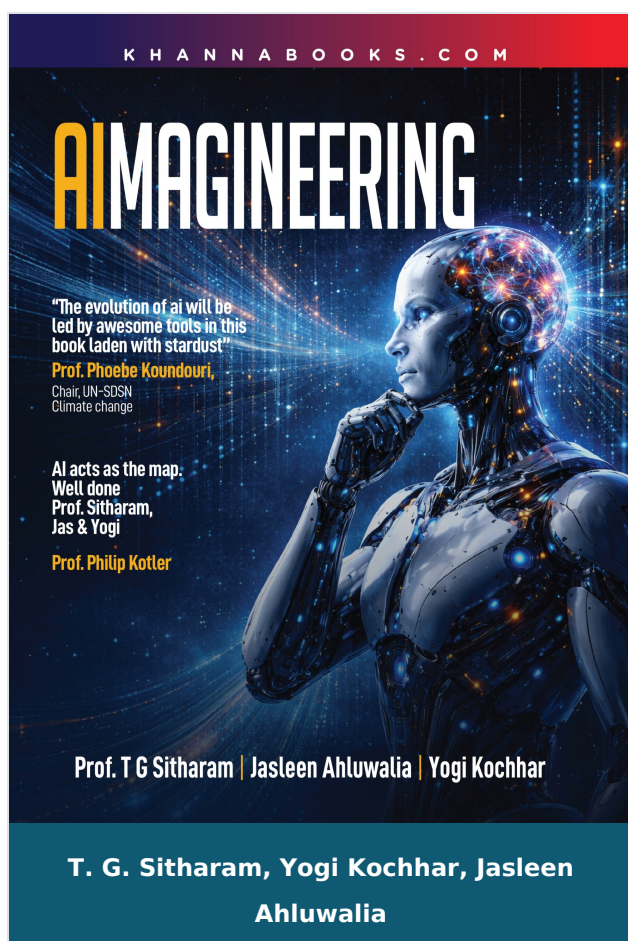
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- Computer Codes
- Input and Output Devices
- Computer Memory and Secondary Storage
- Data Communication, Computer Networks and Internet
- Basic Concepts of Software and Its Types
- Evolution of Programming Languages and Program Development
- Overview of C Language
- Variables, Constants and Data Types
- Operator Types in C and Expressions
- Decision Making Iterative and Control Constructs In C
- User Defined Functions
- Arrays Overview and Its Types
- Pointers and Applications
- Structures and Union
- File Management in C
- Problems & Solutions on C Programming
- Additional Descriptive Questions on C
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## 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'



## AIMagineering

**Author :** T. G. Sitharam, Yogi Kochhar, Jasleen Ahluwalia

**ISBN 13 :** 978-93-74541-64-7

**ISBN 10 :** 9374541645

**E-ISBN 13 :** 978-93-74541-64-7

**Edition :** 1

**Pages :** 274

**Type of book :** Physical

**Year :** 2026

**Language :** English

**Publisher :** Khanna Publishing House

**M.R.P :** Rs 949.00

**Categories :** [Emerging Technologies, Book Store](#)

**Condition Type :** New

**Country Origin :** India

## Product Description

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### AIMAGINEERING

#### The Art and Science of Imagineering

“The world expands in direct proportion to the depth of our imagination.” — Inspired by Einstein (and lovingly upgraded by AI).

Cue the lights. Enter Amitabh Bachchan or Keanu Reeves; having coffee with Imagineering. Somewhere between the first sip and a cosmic spark, the future is born.

Now picture this: an 8th grader builds an AI that catches crimes before they happen, grows better crops, trades smarter than Wall Street, tracks climate credits, and designs your perfect study plan from a tablet smaller than their lunchbox.

Welcome to Imagineering, where science flirts with art and curiosity turns into code. Here Computer Vision, Spatial AI, Interaction AI, and Metaverse AI don't just sound cool, they build the world you've only dreamed of.

Each chapter is a fast-paced story: part thriller, part classroom comedy, where students, celebrities, and robots team up to fix everything from traffic jams to fashion disasters.

Give a kid data, imagination, and a mentor and they'll outbuild your future plans before you can say “upload complete.”

The future isn't coming. They're already coding it.

#### Prof. T G Sithoram

The civil engineer monk who conjures and speaks to blueprints and carves temples out of menhirs; he doesn't just build foundations, he thinks them into existence.

#### Jas Ahluwalia

A spark in sneakers; she turns chaos into projects faster than AI can say “let me process that.” Her laughter might just be the next renewable energy source.

**Yogi Kochhar**

The monk with a motherboard; he meditates on algorithms and dreams in metaphors, proving imagination isn't a luxury, it's an upgrade to consciousness.

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- AI & Mfg, Retail, Advt, Supply Chains, Stocks
- AI & Logistics & Insurance
- Immortality, Nanobots, Space, Quantum & Blockchains
- AI & Tourism, Conservation & Adventure
- Event Management
- Social Media Dating, Deepfakes, IPR
- Comedy
- AI & Space, Robotics, Defense & Cyber security
- Fashion, Beauty & Perfume
- Music
- Cinema, Art & Creative Expression

- Gaming
- Hospitality
- Health & Medicine
- Parenting & Pets
- Home Automation, Personal Security, Smart Home, AI Personal Finance Retirement
- AR & VR
- LegalTech, Journalism & Publishing
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## Author

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### T. G. Sitharam

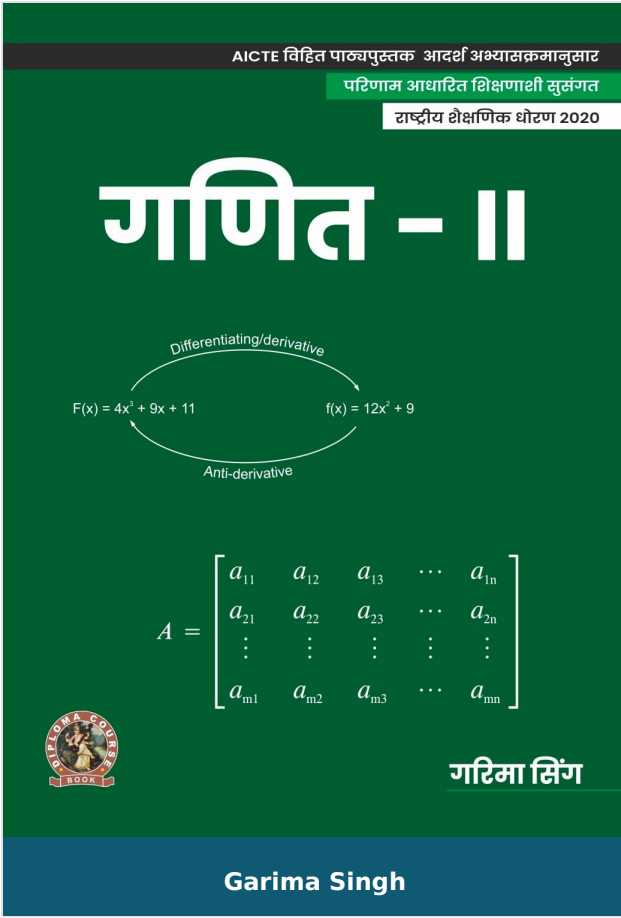
T. G. Sitharam is a civil engineer, professor at IISc Bangalore, former director at IIT Guwahati. Currently, he is serving as Chairman of the All India Council for Technical Education, (AICTE) from 1 December 2002 onwards. He is known for his works in the fields of rock mechanics, rock engineering geotechnical earthquake engineering. He is an elected fellow of Indian Geotechnical Society, Institution of Engineers (India) and American Society of Civil Engineers.

### Yogi Kochhar

Yogi Kochhar : - Yogi, an AI FUTURIST, works across sectors in US, UK and India to operationalize AI adoption at scale: his ability to simplify complex ideas and translate them into implementable constructs gives this book its unique clarity and force. Author, Poet Golfer, Trekker. Their collaboration results in a seminal work that charts not just what AI can do, but what it must do; strengthen institutions, empower citizens, and prepare societies for an era of profound transformation.

### Jasleen Ahluwalia

Prof. T G Sithoram Jas Ahluwalia Yogi Kochhar



## Mathematics-II

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|-------------------------|---------------------------------------------------------------------------------------------------------------------|
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## Product Description

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

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

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

Some salient features of the book:

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

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

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## Author

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**Garima Singh**

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