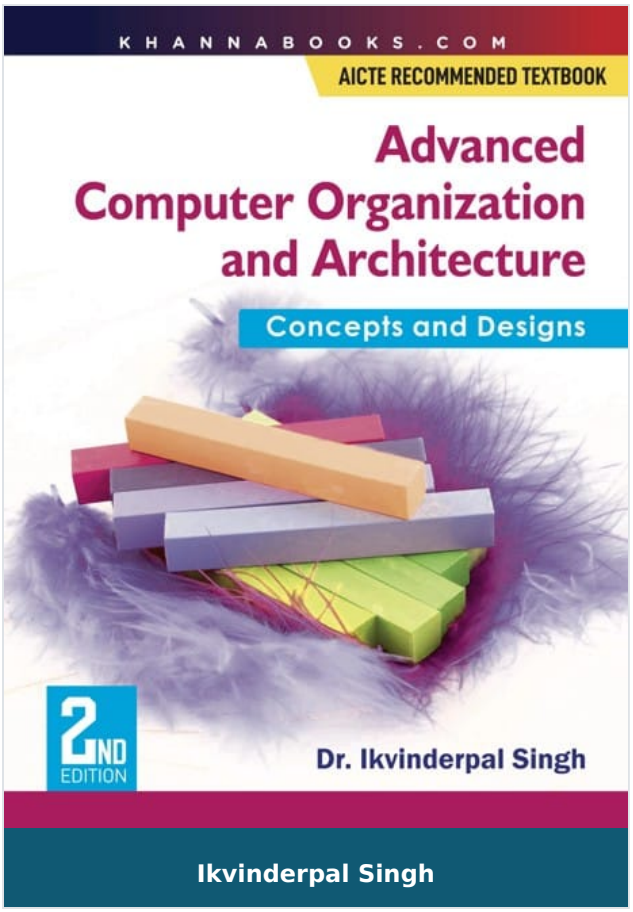


# Advanced Computer Organization & Architecture

| | |
|---|---|
| **Author :** | Ikvinderpal Singh |
| **ISBN 13 :** | 978-93-55387-01-1 |
| **ISBN 10 :** | 9355387016 |
| **E-ISBN 13 :** | 978-93-55387-01-1 |
| **Edition :** | 2 |
| **Pages :** | 396 |
| **Type of book :** | Physical |
| **Year :** | 2025 |
| **Language :** | English |
| **Publisher :** | Khanna Publishing House |
| **M.R.P :** | Rs 549.00 |
| **Categories :** | Computer Science Engineering, UNIVERSITY RECOMMENDED, Computer Science Engineering, Book Store |
| **Condition Type :** | New |
| **Country Origin :** | India |

## Product Description

Describes the introduction of advanced computer architecture and parallel processing. Covers the paradigms of computing like synchronous and asynchronous. Detailed explanation of the Flynn's classification, Kung's taxonomy and reduction paradigm. provides a detailed treatment of abstract parallel computational models like combination circuits, sorting network, PRAM models, interconnection RAMs. Covers the parallelism in uniprocessor systems. Provides an extensive treatment of parallel computer structures like pipeline computers, array computers and multiprocessor systems. Covers the concepts of pipeline and classification of pipeline processors. Give description of super scalar, super pipeline design and VLIW processors. Explains the design structures and algorithms for array processors.

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## Table Of Contents


- Introduction To Advanced Computer Architecture And Parallel Processing
- Paradigms of Computing: Synchronous
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- Parallelism in Uni-processor Systems
- Parallel Computer Structures
- Pipe lining
- Principles of Designing Pipelines Processors
- Super scalar and Super pipeline Design
- Design Structures and Algorithms for Array Processors


## 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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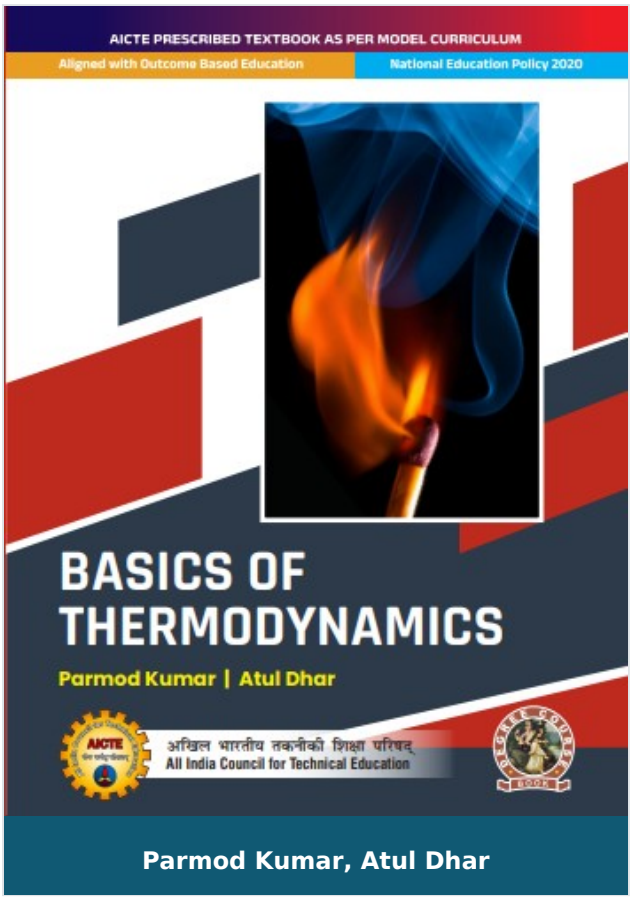


# Basics of Thermodynamics

| | |
|---|---|
| **Author :** | Parmod Kumar, Atul Dhar |
| **ISBN 13 :** | 978-93-55386-25-0 |
| **ISBN 10 :** | 9355386257 |
| **E-ISBN 13 :** | 978-93-55386-25-0 |
| **Edition :** | First |
| **Pages :** | 284 |
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| **Year :** | 2026 |
| **Language :** | English |
| **Publisher :** | Khanna Publishing House |
| **M.R.P :** | Rs 528.00 |
| **Categories :** | AICTE Prescribed Textbooks, English Books, Book Store |
| **Condition Type :** | New |
| **Country Origin :** | India |

## Product Description

### Basics of Thermodynamics

This book titled Basics of Thermodynamics introduces the subject from the theoretical concepts to its applications in different energy conversion devices. The content of the book is designed as per the model curriculum of AICTE and mandates of the National Education Policy (NEP) 2020. The content of the book is described in a manner that beginners can follow the concepts in comfortable and cohesive manner. The content of the book is developed for entry level undergraduate students; however, it can be used by practicing engineers and graduate students for the comprehensive learning of the subject.

Salient Features:

- Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit 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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- Energy Analysis for Control Volumes
- Second Law of Thermodynamics
- Entropy
- Exergy
- Basic Power and Refrigeration Cycles
- Appendices
- CO and PO Attainment Table
- Index


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**Atul Dhar**

Dr. Atul Dhar Associate Professor, School of Mechanical and Materials Engineering, IIT Mandi

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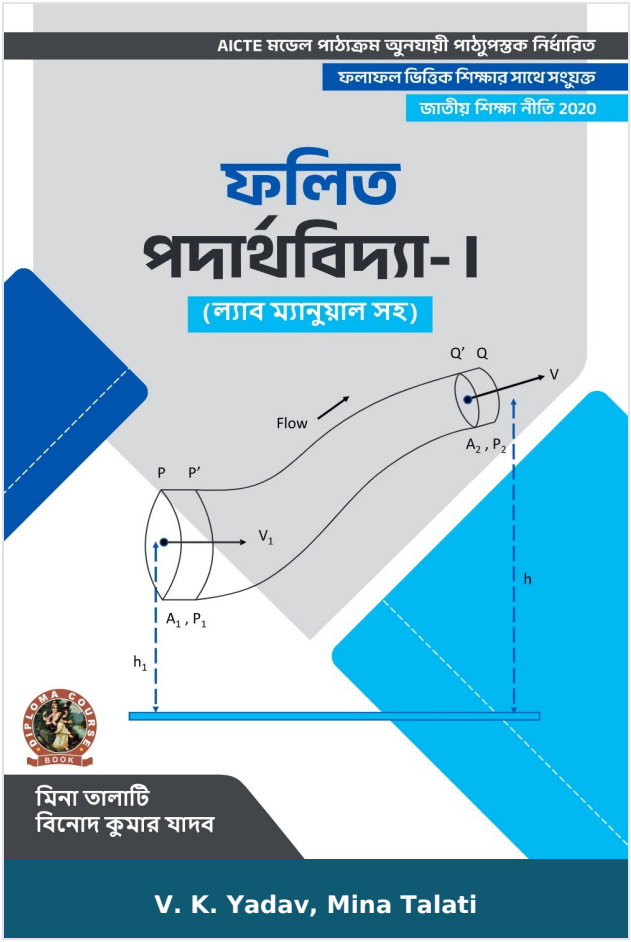


# Applied Physics I (with Lab Manual)

| | |
|---|---|
| **Author :** | V. K. Yadav, Mina Talati |
| **ISBN 13 :** | 978-93-55381-34-7 |
| **ISBN 10 :** | 9789355381347 |
| **E-ISBN 13 :** | 978-93-55381-34-7 |
| **Edition :** | 1 |
| **Pages :** | 212 |
| **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

“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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- Work, Power and energy.
- Rotational Motion.
- Properties of Matter.
- heat and Thermometer.
- Annexes
- Appendices
- Index


## Author


**V. K. Yadav**

V. K. Yadav

**Mina Talati**

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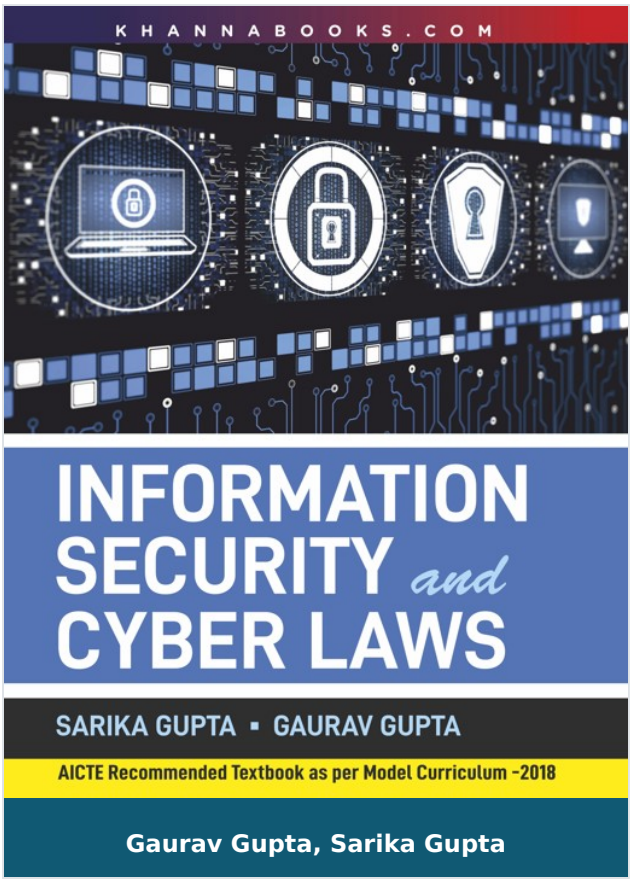


# Information Security and Cyber Laws

| | |
|---|---|
| **Author :** | Gaurav Gupta, Sarika Gupta |
| **ISBN 13 :** | 978-93-81068-24-3 |
| **ISBN 10 :** | 9381068240 |
| **E-ISBN 13 :** | 978-93-81068-24-3 |
| **Edition :** | First |
| **Pages :** | 424 |
| **Type of book :** | Physical |
| **Year :** | 2025 |
| **Language :** | English |
| **Publisher :** | Khanna Publishing House |
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| **Categories :** | UNIVERSITY RECOMMENDED, Computer Science Engineering, Book Store |
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## Product Description

Introduction of Information Security and security and cyber law covers the fundamentals aspect of system, Information system, Distributed Information system, Cryptography, Network Security etc. It is Incredibly robust, portable & adaptable. This book coverage of Model paper, Question Bank and Examination Question Paper etc.

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- What is Information ?
- What is Security ?
- What is E-commerce ?
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- Cryptography
- Network Security
- Security Metrics
- Ethical Issues
- Question Bank
- Model papers


## 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 already published Research Papers in various international Journals and conferences of

repute. Her area of interest and research includes AdHoc Network, Java, Object Oriented System and Soft Computing etc.

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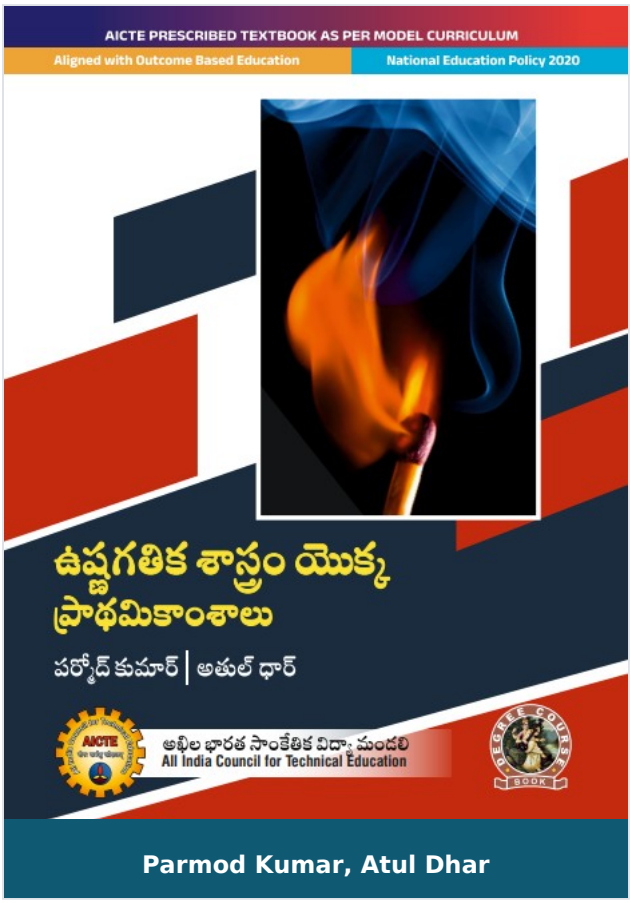


# Basics of Thermodynamics

| | |
|---|---|
| **Author :** | Parmod Kumar, Atul Dhar |
| **ISBN 13 :** | 978-93-55389-42-8 |
| **ISBN 10 :** | 9355389426 |
| **E-ISBN 13 :** | 978-93-55389-42-8 |
| **Edition :** | First |
| **Pages :** | 340 |
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Dr. Atul Dhar Associate Professor, School of Mechanical and Materials Engineering, IIT Mandi

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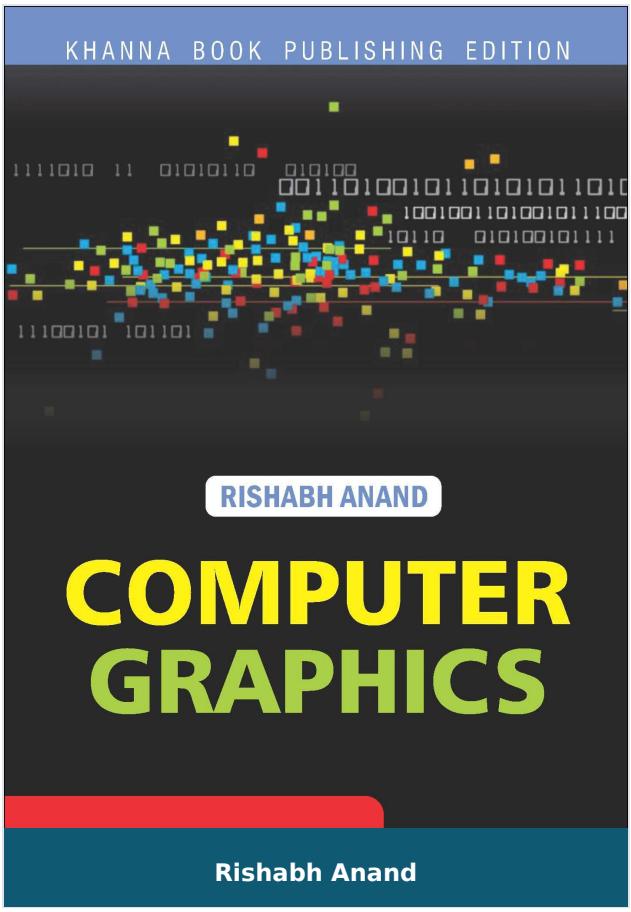


# Computer Graphics (A Practical Approach)

| | |
|---|---|
| **Author :** | Rishabh Anand |
| **ISBN 13 :** | 978-93-81068-96-0 |
| **ISBN 10 :** | 9381068968 |
| **E-ISBN 13 :** | 978-93-81068-96-0 |
| **Edition :** | 1 |
| **Pages :** | 488 |
| **Type of book :** | Physical |
| **Year :** | 2013 |
| **Language :** | English |
| **Publisher :** | Khanna Publishing House |
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| **Condition Type :** | New |
| **Country Origin :** | India |

## Product Description

Discusses current computer graphics hardware and software systems techniques and applications. Explores algorithms for creating and manipulating graphics displays and techniques for implementation. Use of programming examples written in C to demonstrate the implementation and application of graphic algorithms. Detailed discussion of 2-D and 3-Dimensional concepts and techniques. A complete chapter dedicated to animation. Review questions are included at the end of each chapter. These exercises allow students additional practice with each of the topics covered in the book.

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- Basic Concepts In Computer Graphics
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- Segments
- Transformation
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- D Viewing, Projections & Clipping
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- Light, Colour & Shading
- Curves & Fractals
- Interactive Graphics
- Graphical User Interface
- Graphics Kernel System
- Animation
- Appendix


## Author

**Rishabh Anand**

Rishabh Anand received his Bachelor's degree B.E (Hons) in Electronics and Communication Engineering from Maharishi Dayanand University, Rohtak in 2006. The author is M.Tech. in Electronics and Communication Engineering from Veer Bahadur Singh Purvanchal University, Jaunpur in 2014, and MBA from Indian Institute of Management, Kozhikode in 2016. The Author is Program Diploma in Innovation Management from International Business Management Institute, Germany (Berlin) in 2020. The author has

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contributed to research publications in refereed, cited International Conferences and Journals, and attended many conferences, workshops, FDPs, and seminars. Also, he is the reviewer member of IJSDR Journal. He is a prolific author with 34 Text and Reference books to his credit, for B. Tech. (ECE/CSE/IT), M.Tech. (ECE/CSE/IT), BCA, MCA, and other courses of different Universities of India and overseas. His areas of interest include Software Project Management, Cloud Computing, Deep Learning, Tensor Flow, Python, R Programming and Machine Learning. He is currently working in ITES industry as a Global Service Delivery Manager. He is Project Management Professional (PMP)®, ITIL® Foundation Certificate in IT Service Management, PRINCE2® Practitioner Certification - Project Management, ScrumMaster® (CSM®), Certified Six Sigma White Belt (CSSWB™), Lean Six Sigma White Belt Certified (LSSWBC™) and Certified Six Sigma Green Belt™ (CSSGB™). The author delivers lectures as Visiting Faculty (Assistant Professor) in the Global Institute of Technology and Management, Farrukh Nagar, Gurgaon.

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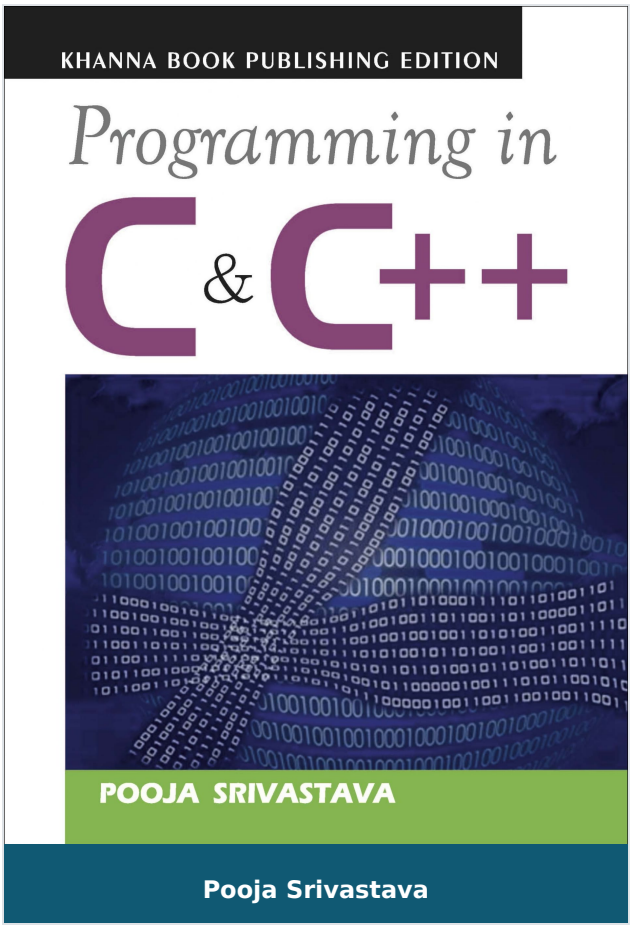


# Programming in C & C++

| | |
|---|---|
| **Author :** | Pooja Srivastava |
| **ISBN 13 :** | 978-93-82609-24-7 |
| **ISBN 10 :** | 9382609245 |
| **E-ISBN 13 :** | 978-93-82609-24-7 |
| **Edition :** | First |
| **Pages :** | 336 |
| **Type of book :** | Physical |
| **Year :** | 2014 |
| **Language :** | English |
| **Publisher :** | Khanna Publishing House |
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| **Categories :** | Computer Science Engineering, Book Store |
| **Condition Type :** | New |
| **Country Origin :** | India |

## Product Description

This book has been designed in a very systematic and logical manner. Each topic has been developed from the basic concepts. Practically every major point in the text is illustrated with suitable examples and screen shots. The text uses sample programs, case studies, programming problems and many more pedagogical aids to enable better understanding of these languages. This will help the students in understanding the basic theory and train them in solving every problem systematically, and confidently. A large number of unsolved as well as solved exercises have also been included in the book.

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- Ploymorphism
- Inheritance
- Pointers
- File Handling


## Author


**Pooja Srivastava**

Pooja Srivastava



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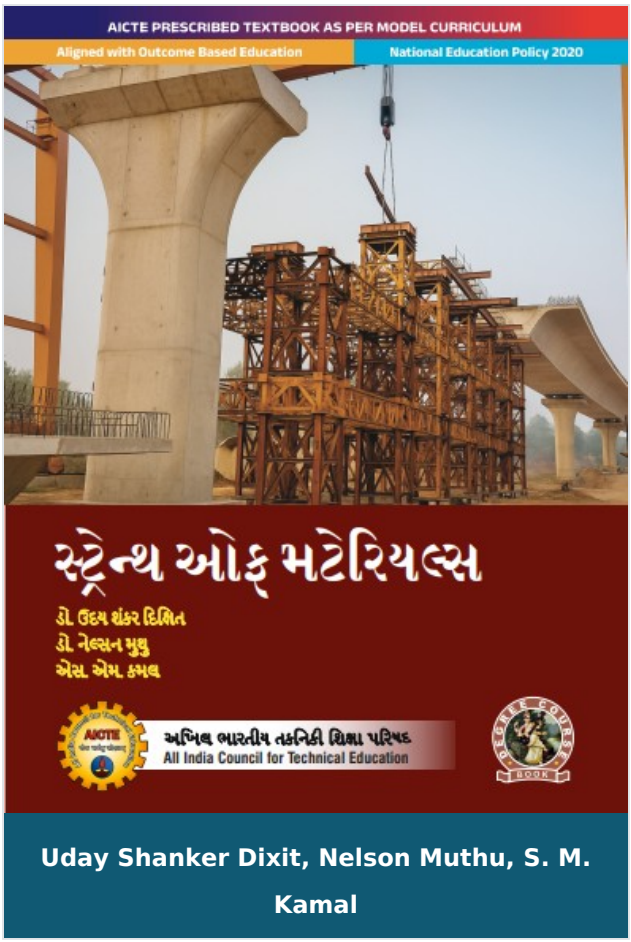


**Uday Shanker Dixit, Nelson Muthu, S. M. Kamal**

# Strength of Materials

| | |
|---|---|
| **Author :** | Uday Shanker Dixit, Nelson Muthu, S. M. Kamal |
| **ISBN 13 :** | 978-93-55389-28-2 |
| **ISBN 10 :** | 9355389280 |
| **E-ISBN 13 :** | 978-93-55389-28-2 |
| **Edition :** | First |
| **Pages :** | 504 |
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| **Publisher :** | Khanna Publishing House |
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| **Categories :** | AICTE Prescribed Textbooks, Gujarati Books, Book Store |
| **Condition Type :** | New |
| **Country Origin :** | India |

## Product Description

### Strength of Materials

This book on Strength of Materials follows so-called engineer’s approach. It is a suitable book for one-semester first course on Solid Mechanics or Strength of Materials for undergraduate students of engineering. The uniqueness of the book is that basic concepts have been covered in a lucid manner such that students can also be prepared to study a course on theory of elasticity (so-called mathematician’s approach) in later classes. There are sufficient number of exercise problems in this book, which prepare students to become practicing engineer or a researcher. The book also contains multiple choice questions. Content of the book, examples and exercise problems have been optimized. Thus, the learning output to effort ratio can be enhanced with the support of this book.

### Salient Features:

- Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit 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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- 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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- Bending stresses
- Shear stresses in beams
- Deflection and slope of beams
- Torsion of circular shafts
- Thin and thick cylinders and spheres
- References for further learning
- CO And PO Attainment Table
- Index


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## Author

**Uday Shanker Dixit**

Dr. Uday Shanker Dixit Professor, Department of Mechanical Engineering, Indian Institute of Technology Guwahati, Dr.

**Nelson Muthu**

Dr. Nelson Muthu Assistant Professor, Department of Mechanical Engineering, Indian Institute of Technology Guwahati

**S. M. Kamal**

Dr. Uday Shanker Dixit Professor, Department of Mechanical Engineering, Indian Institute of Technology Guwahati, Dr. Nelson Muthu Assistant Professor, Department of Mechanical Engineering, Indian Institute of Technology Guwahati

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# Introduction to IT Systems (with Lab Manual)

| | |
|---|---|
| **Author :** | Prashant Joshi |
| **ISBN 13 :** | 978-93-55381-72-9 |
| **ISBN 10 :** | 9355381727 |
| **E-ISBN 13 :** | 978-93-55381-72-9 |
| **Edition :** | 1 |
| **Pages :** | 300 |
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| **Categories :** | AICTE Prescribed Textbooks, Ebooks, Malayalam Books |
| **Condition Type :** | New |
| **Country Origin :** | India |

## Product Description

“INTRODUCTION TO SYSTEMS” is a compulsory paper for the first year Diploma 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 five units- Internet Skills and Computer Basics, Operating Systems, HTML and CSS, open Office Tools. And information Security Best Practices. Each topic in units is written in each and lucid manner. Every unit contains a set of exercise at the end of each unit to test 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. Practical are included with each unit for better understanding of the theoretical concepts.

3. Book Provides interesting facts and various activities pertaining to topic. QR Codes are used for additional E-resources, use of ICT, online code editors, online quiz etc.

4. Student and teacher centric subject materials included in balanced and chronological manner.

5. Figures, tables, source code for web programming, numerous examples and applications are included to improve clarity of the topics.

6. Objective questions, subjective questions and crossword exercise are given for practice of students after every chapter.

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- Outcome Based Educations,
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- Guidelines for Students
- Internet skills and computer Basics.
- Operating Systems.
- HTML AND CSS.
- Open Office Tools.
- Information Security Best Practices.
- Annexure
- Appendices
- Index


## Author


**Prashant Joshi**

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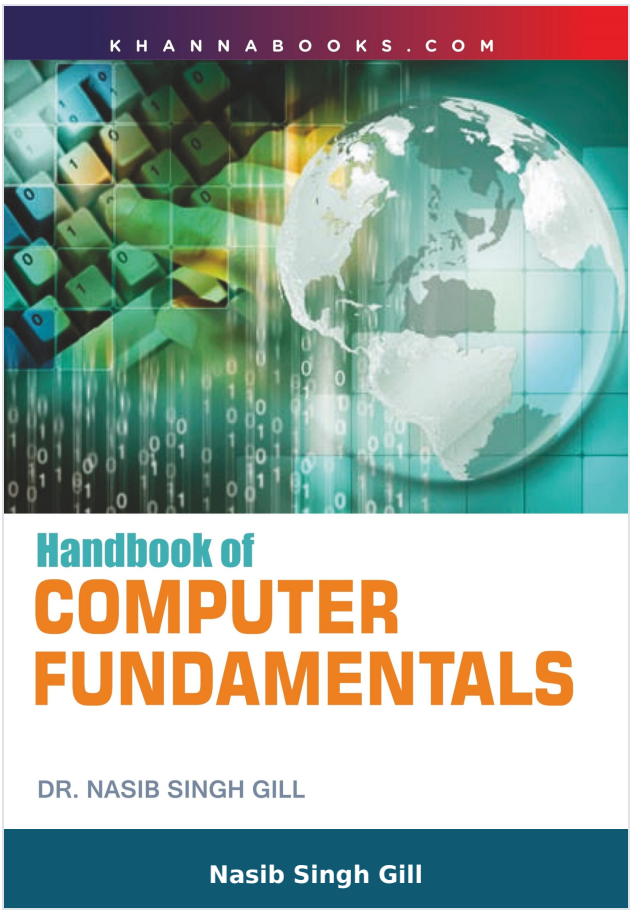


# Handbook of Computer Fundamentals

| | |
|---|---|
| **Author :** | Nasib Singh Gill |
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## Product Description

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

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


## Author

**Nasib Singh Gill**

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

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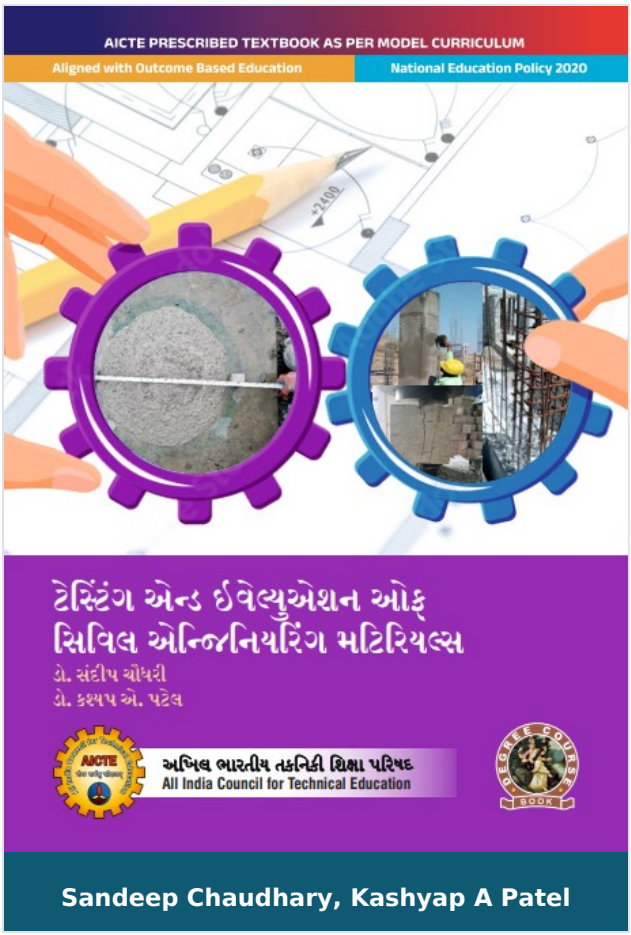


# Testing & Evaluation of Civil Engineering Materials

| | |
|---|---|
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| **ISBN 13 :** | 978-93-55384-99-7 |
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## Product Description

### Testing & Evaluation of Civil Engineering Materials

This book contains an introduction to civil engineering materials and an advanced discussion on their testing and evaluation procedure for fourth semester students of undergraduate degree course. Main purpose of the book is to help the students identify suitable civil engineering materials as per their needs, through a systematic testing and evaluation procedure. The book is designed as per syllabus and model curriculum of AICTE and aligned with the theme of outcome-based education according to National Education Policy 2020.

**Salient Features:**

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- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
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- Index


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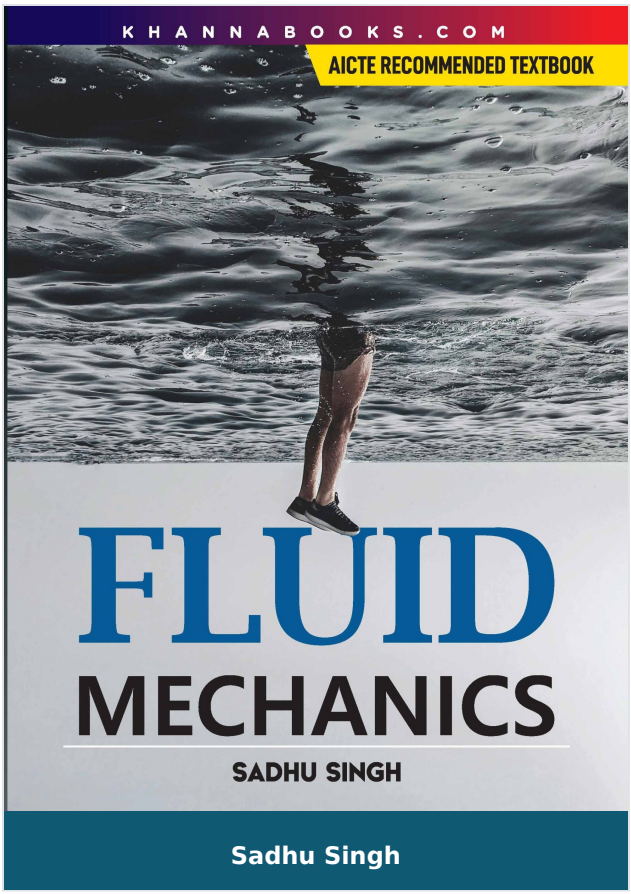


# Fluid Mechanics | AICTE Recommended Textbook

| | |
|---|---|
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This book is a textbook for the B.E./B. Tech. students of All Indian Universities and Institutions. The subject matter has been explained in the simplest possible way for easy assimilation by the students. This has been reinforced by a large number of solved examples. A large number of solved examples, short answer type questions chapter wise. Unsolved end-of chapter exercises. Multi-choice questions from ESE/CSE/GATE.

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- Fluid Dynamics
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## Author

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Dr. Sadhu Singh is a retired professor of Mechanical Engineering of Govind Ballabh Pant university of Agriculture & Technology, Pantnagar. He graduated in Mechanical Engineering with Hons, from Punjab University, Chandigarh, M.Sc. (Mechanical Design & Production Engineering) and Ph.D. from Kurukshetra University, Kurukshetra. His teaching experience spans 15 years at Regional Engineering College (now NIT), Kurukshetra and

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