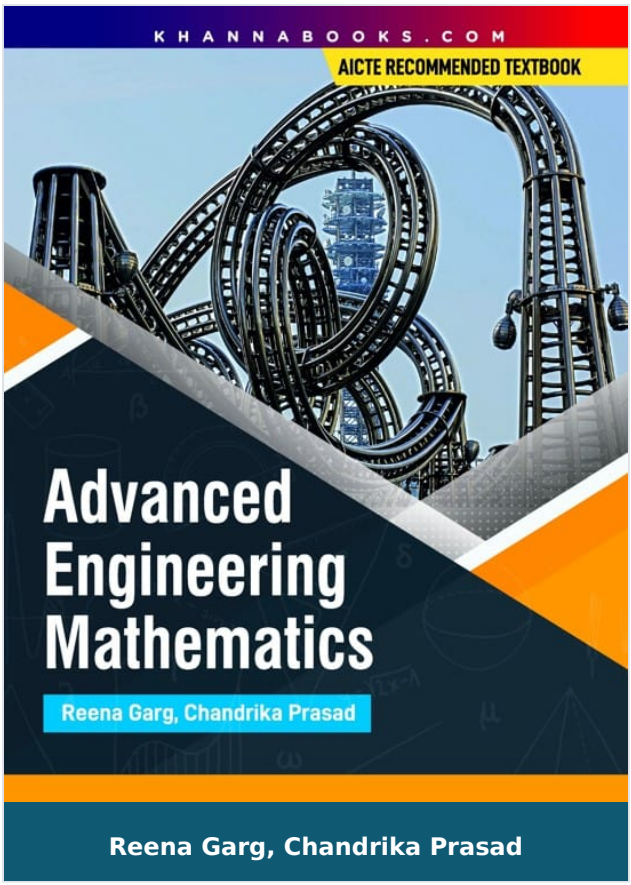


# Advanced Engineering Mathematics

| | |
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| **Author :** | Reena Garg, Chandrika Prasad |
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## Product Description

This book provides a comprehensive, thorough and up to date treatment of mathematics in engineering and sciences. This is intended to introduce students of engineering, physics, mathematics, computer sciences and other related fields to those areas of applied mathematics that are most relevant for solving practical problems. Practice is the key word in the learning process of mathematics . The aim of this book is to provide a vast knowledge of mathematics and its diverse practical use in daily lives. The course contents in this book are the sole pre-requisites. The experience of the author of more than a decade in teaching at under graduate, post graduate level and in the research areas of mathematics in University makes this book useful.

In this book all the topics and related concepts have been given in a lucid and simple way filling every gap between students and mathematics. A lot of worked examples are given so as to help the readers understand better.

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- Coordinate Geometry of Three Dimensions
- Expansion of Functions (Taylor's and Maclaurin's Series)
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- Infinite Series
- Fourier Series
- Differentiation
- Partial Differential Equations
- Function of a Complex Varibale
- Laplace Transforms and ITS Application
- Fourier Transform and ITS Application
- Empirical Laws and Curve Fitting.
- Solution to Numerical, Algebraic and Trabscendental Equation
- Numerical Solution of Ordinary Differential Equations
- Numerical Solution of Ordinary Differential Equations
- Numerical Solution of Partial Differential Equations


## 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 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.

**Chandrika Prasad**

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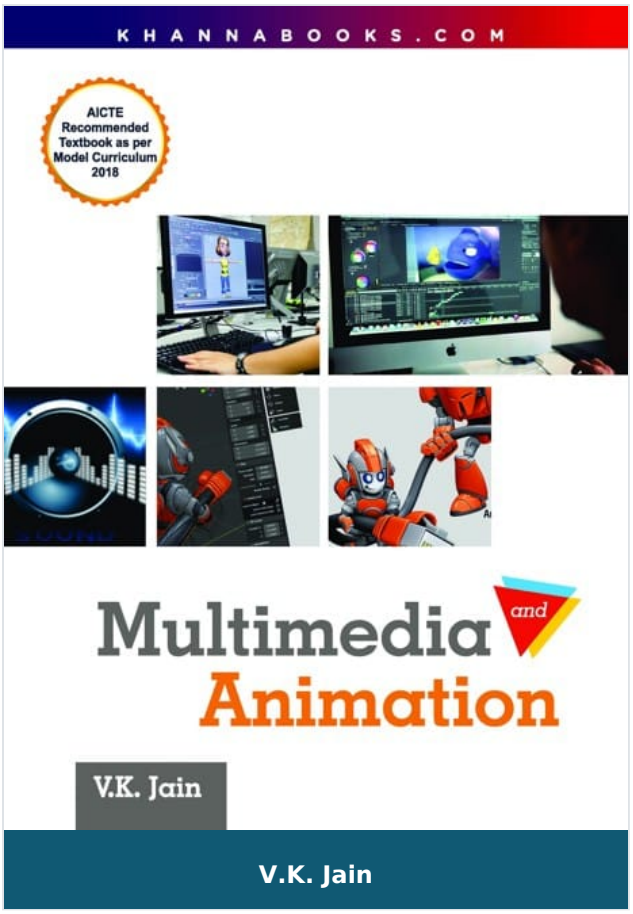


# Multimedia and Animation

| | |
|---|---|
| **Author :** | V.K. Jain |
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The overall goal of the book is to provide a broad understanding of multimedia systems and applications in an integrated manner. A user enjoys multimedia application only if all the pieces of the end-to-end solution fit together. This means that a multimedia application and its user interface must be developed in an integrated fashion with underlying multimedia middleware, operating systems, networks, security, and multimedia device. The book explains the fundamental concepts of storage, compression and decompression, and display technologies used for multimedia systems.

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- Chapter-5: Multimedia Images and Graphics
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- Chapter-8: Animation
- Chapter-9: Multimedia Authoring Tools
- Chapter-10: Internet, Web and Social Media
- Chapter-11: Wireless Multimedia
- Chapter-12: Multimedia projects: Multimedia Skills


## Author

**V.K. Jain**

Dr. V.K. Jain is a well known practical engineer who has authored more than 125 books on engineering, management and subjects related with computer science. He obtained degree in Electrical Engineering in 1966 from MACT (Maulana Azad College of Technology) Bhopal. He did M. Tech. in 1968 from MACT and HEL (Now Bharat Heavy Electricals) Bhopal in Design and Production of Heavy Electrical Equipments, an Industry Oriented course run under the sponsorship of UNESCO under Vikram University Ujjain in 1968. He was attached to Electronics Application Engineering Department of BHEL. He presented a thesis on ""Analysis of the performance of speed and excitation regulation System using fast acting integrator type AVR for a large Hydro-generator (15 MW). This

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was concerned with studying power system from the viewpoint of electronic control systems (based on Nyquist Criteria) through Analog and Digital Computer at one of the premier Institution of India IIT (Indian Institutue of Technology) Kanpur. He personally prepared digital computer program in FORTRAN IV as early as in year 1968 at IIT Kanpur and compiled it on IBM 7044 Main Frame Computer, The fastest Computer in India at that time. He joined CPWD as Electrical Engineer on 20.5.1968 on basis of All India Competitive Examination for Central Electrical Engineering Services (Now known as IES) through Union Public Service Commission of India and served CPWD for 35 years. After retirement he worked with M/s CP Kukreja as consultat engineer for nearly one and half years and at present working as Chief Consultant Engineer with M/s Hospitech Management Consultant Pvt. Limited WTC New Delhi and engaged in designing most modern E/M, Electronic services and IBMS in premier Medical colleges and Big Hospital systems including AIIMS at Raipur and Patna.

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# Engineering Graphics & Design

| | |
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## 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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- Projection of Solids
- Sectional Views of Solids
- Isometric Projection
- Overview of Computer Graphics
- Customisation &CAD
- Annotation Layers and 3D Modelling
- Projects
- Reference
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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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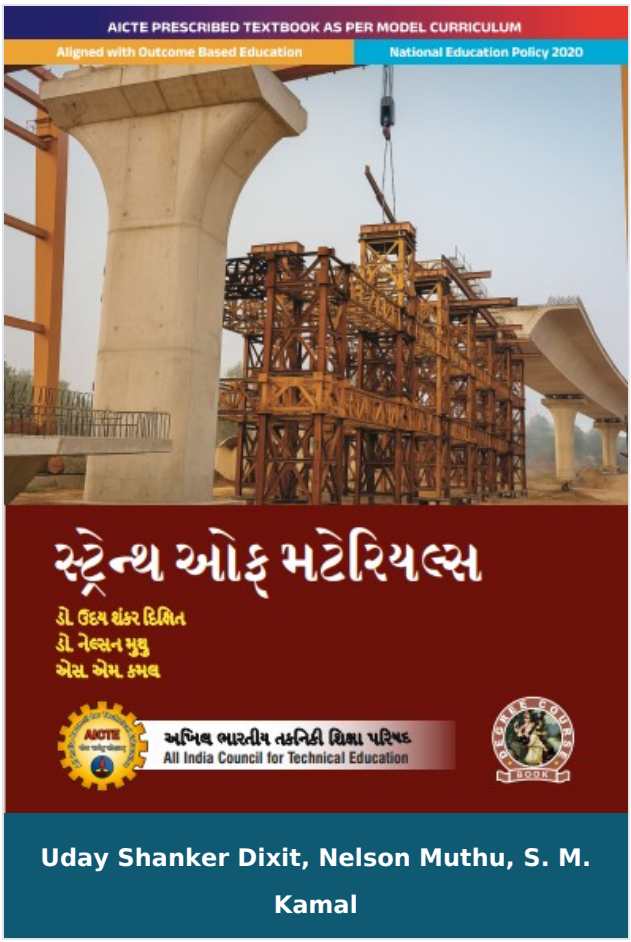


**Uday Shanker Dixit, Nelson Muthu, S. M. Kamal**

# Strength of Materials

| | |
|---|---|
| **Author :** | Uday Shanker Dixit, Nelson Muthu, S. M. Kamal |
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| **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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**Nelson Muthu**

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

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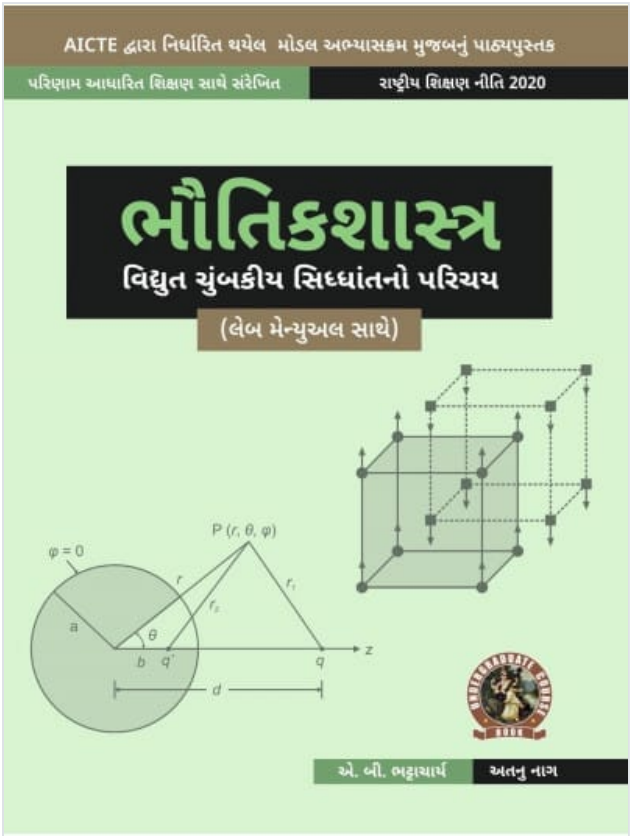


A. B. Bhattacharya, A. Nag

# Physics (Introduction to Electromagnetic Theory) (with Lab Manual)

| | |
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## Product Description

Engineering Physics: Introduction to Electromagnetic Theory has been written for the first year students of B. Tech Engineering Degree Courses of all Indian Universities following the guideline and syllabus as recommended by AICTE. The book, written in a very simple and lucid way, will be very much helpful to reinforce understanding of different aspects to meet the engineering student’s needs Writing a text-cum manual of this category poses several challenges providing enough content without sacrificing the essentials, highlighting the key features, presenting in a novel format and building informative assessment. This book on engineering physics will prepare students to apply the knowledge of Electromagnetic Theory to tackle 21st century and onward engineering challenges and address the related questions.

Some Salient Features of the Book:

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2. To develop knowledge on critical questions, solved and supplementary problems covering all types of medium and advanced level problems in a very logical and systematic manner.

3. Some essential information for the users under the heading “know More” for clarifying some basic

4. Information as well as comprehensive synopsis of formulae for a quick revision of the basic principles.

5. Constructive manner of presentation so that an Engineering degree students can prepare to work in different sector or in national laboratories at the very forefront of technology.

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- Faraday’s Law
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- Table of Physical Constants
- Appendices
- Annexures
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## Author

**A. B. Bhattacharya**

Prof. A. B. Bhattacharya did his MSc and PhD degree from the University of Calcutta in Physics and Post-doc from the Massachusetts Institute of Technology (MIT), Cambridge, USA. He worked in close collaboration with the leading laboratories like Lincoln Laboratory; Milestone Hill Observatory; Earth, Atmospheric and Planetary Sciences division of MIT and many other well recognized laboratories in India and abroad. He served as Professor & Head of the Department of Physics, University of Kalyani; Dean of Research and Head of the ECE Department, Techno India University; Pro Vice Chancellor of JIS University and Director of Brainware University. He has published 32 text books for Science and Engineering students, two popular books for general readers and over 400 research articles in reputed International Journals. Under his supervision 24 scholars received their doctoral degree. He is a fellow of the Institute of Electronics and Telecommunication Engineers and member of many scientific organizations. India International Friendship Society awarded him the prestigious "Shiksha Ratna Award" and Certificate of Excellence for meritorious services, outstanding performance and significant contribution to education. The International Institute of Success Awareness hon0red him with their globally recognized "Glory of India Gold Medal" for his outstanding contribution to the national stature of India. A few words from the certificate issued by Prof. Williams of MIT may be quoted "Our collaborative effort was directed at the wavelength dependence of radar echoes observations with the Millstone Hill UHF radar in Westford. He made use of the Charles River Data System computer in the Weather Radar Laboratory for these calculations. His results help to make a convincing case that the volume reflectivity associated with lighting is a diminishing function of radar wavelength, contrary to contemporary thinking". Dr.

**A. Nag**

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A. Nag Dr. Atanu Nag did his M. Sc. in 2007 and Ph. D. in 2013 from the University of Kalyani. He has published over 50 Journal papers and 5 books for Science & Engineering students. Presently he is the Head and Associate Professor in the Department of Physics, Modern Institute of Engineering & Technology, Hooghly, West Bengal.

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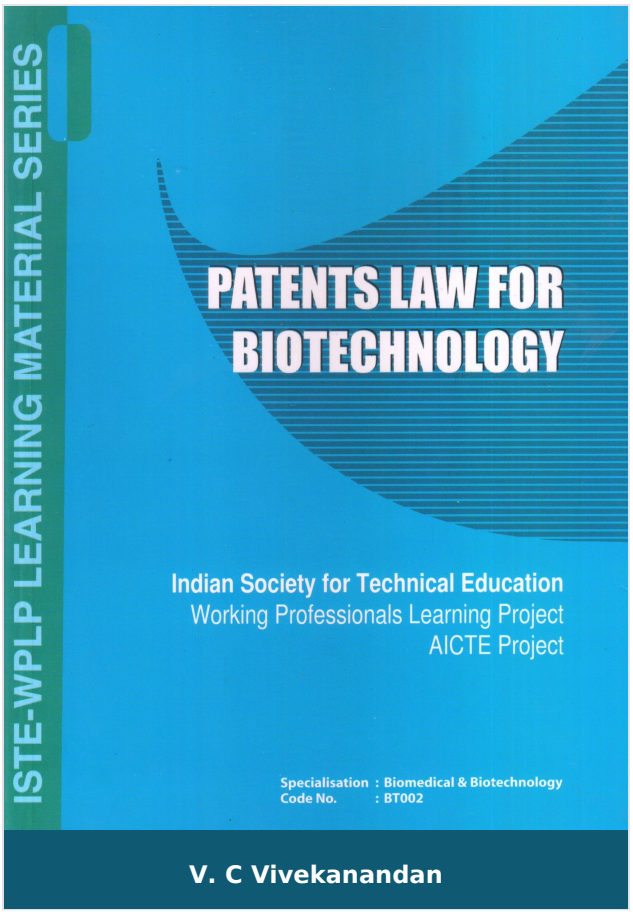


# Patents Law For Biotechnology

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| **Author :** | V. C Vivekanandan |
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This module of designed to give the reader - a technocrat or a lawyer an understanding of the history of the development of Intellectual Property in the first chapter. This chapter shows how the need for such a legislation arose in Europe and later in United States. The Second  chapter deals with the conceptual understanding of contemporary issues in Patenting, what qualifies for patents, what qualifies for patents, what does not and how standards are constantly raised and interpreted. The third chapter deals with the legislation in India. It deals with what are inventions under law and what are not. How does one proceed to patent and invention? How one can draft a good patent? what are the safeguards if one abuses the system? What are the rights of the public in such a system and related issues? The fourth chapter deals with the special issues relating to the emerging research in Biotechnology like the cell culture, hybridoma technologies, recombinant DNA, patenting of software programmes and other principles. The fifth chapter deals with Patent Cooperation Treaty which offers a single window filing system for patenting inventions world wide. The sixth chapter deals with the TRIPS agreement and its salient features, where the provisions relating to patents law and compulsory licences are dealt with. Chapter Seven deals with the World Intellectual Property Organization, its mission, challenges and future agenda.

The module also has select case laws relating to patenting of life forms, Biotechnology, Chemical patents and issues relating to Pharma industry.

The modules have been written to sensitize the target audience to the exciting, yet complex world of patenting system.

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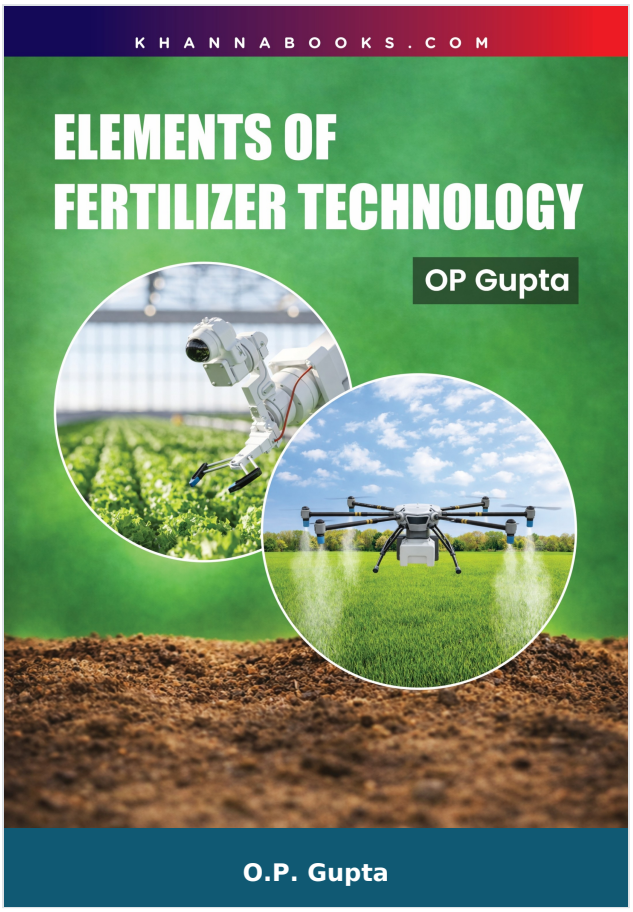


# Elements of Fertilizer Technology

| | |
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## Product Description

### Elements of Fertilizer Technology

Authored by chemical engineer Om Prakash Gupta, this book is a comprehensive guide covering the entire fertilizer industry-from soil science to advanced manufacturing. it details the production of key fertilizers like Urea, Nitric Acid, and NPK blends, while addressing environmental challenges like pollution control. Designed for clarity, it is an essential resource for chemical engineering students, faculty, and industry professionals, combining theoretical knowledge with practical tools like objective-type questions.

### Salient Features

- **Comprehensive Nutrient Analysis**: The book provides an in-depth exploration of primary, secondary, and micronutrients, detailing their specific roles in plant metabolism, growth, and disease resistance
- **Industrial Manufacturing Processes**: It offers technical insights into the production of nitrogenous, phosphatic, and potassic fertilizers, including detailed sections on ammonia synthesis and sulfuric acid manufacture
- **Complex NPK Formulation**: Readers gain a clear understanding of compound and complex fertilizers, including the chemistry behind NPK grades and various granulation techniques used in industrial production.
- **Environmental Stewardship**: A dedicated section focuses on environmental pollution control, covering air emission prevention, wastewater treatment, and the management of hazardous byproducts like fluorides and phosphogypsum.
- **Practical Application Strategies**: The text describes diverse fertilizer application methods-such as broadcasting. placement, and foliar treatment to help maximize nutrient use efficiency and minimize environmental runoff.

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- **Sustainable Organic Perspectives**: Beyond synthetic chemicals, the book discusses organic manures and bio-fertilizers, highlighting their role in building soil organic matter and improving long-term soil fertility.
- **Assessment and Exam Prep**: To aid student learning. the book includes over 303 chapters cha of content supplemented by numerous objective and short-answer questions designed for competitive exam preparation.
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## Author

**O.P. Gupta**

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

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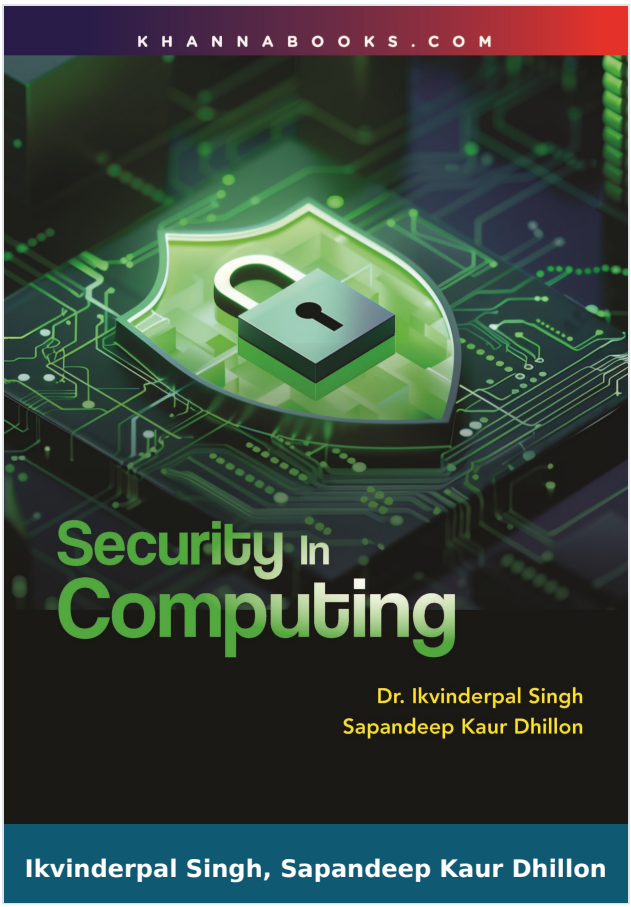


# Security In Computing

| | |
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## Product Description

### Security In Computing

This book provides a systematic study of computing security, covering digital systems, operating systems, network, and databases, it helps readers apply security principles across different layers to protect data and resources from both internal and external threats. The text begins with fundamental concepts like authentication, auditing, and least privilege, while examining modern risks such as identity theft and nation-state adversaries.

Subsequent chapters focus on operating system security, detailing trust models, access control, and verifiable models like Bell-Lapadula and Biba. It also explores secure kernels, virtual machines, and the Android operation system. The network security section addresses DNS vulnerabilities, malware, firewalls, and privacy tools like VPNs and onion routing.

Finally, the book covers database security, including encryption, data masking, and SQL injection detection, supported by a MySQL case study. By emphasizing defense-in-depth and real-world relevance, this work is an essential resource for both academic learning and professional development.

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## Table Of Contents


- Digital systems security and privacy
- Risks in security and privacy
- Operating system security
- Verifiable security goals
- Network security
- Need for physical security
- Database security
- Security features in Databases
- Exercises


## 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.

**Sapandeep Kaur Dhillon**

Sapandeep Kaur Dhillon is an assistant professor in the department of computer science, Guru Nanak Dev University, Amritsar, bringing 12+ years of dedicated academic experience to the discipline. She has authored 4 books, published 10+ research papers



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across national and international journals, reflecting her steady engagement with emerging trends in computing. Her academic interests span data structures, Compiler Design, and Artificial Intelligence, where she integrates foundational theory with practical, algorithmic thinking.

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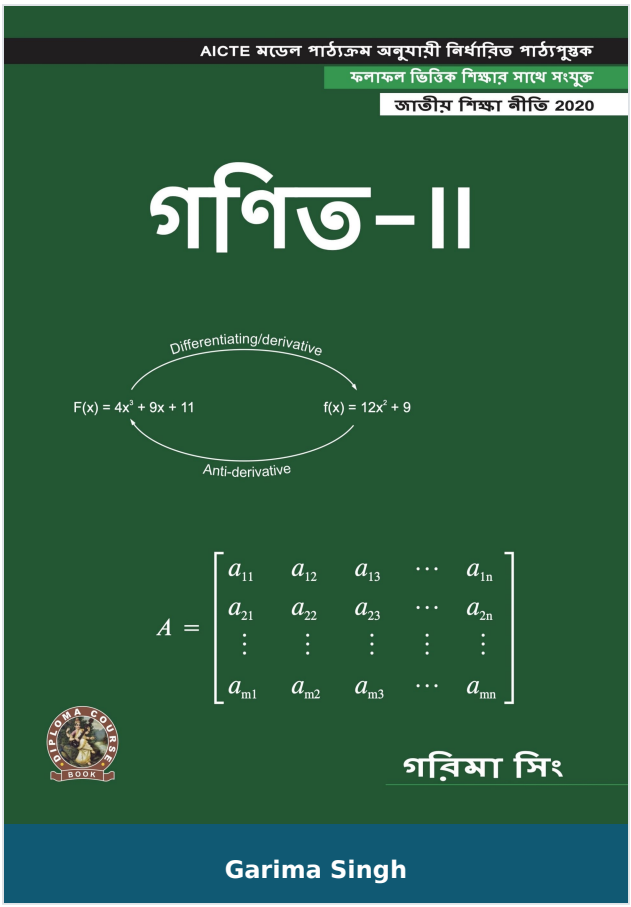


# Mathematics - II

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## Product Description

“Mathematics-ll” 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 uni 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.

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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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- Guidelines for Students
- Determinants and Matrices
- Integral Calculus
- Co-ordinate Geometry
- Vector Algebra
- Differential Equations
- Appendices & Annexures


## Author


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# Mathematics I

| | |
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## Product Description

“Mathematics-I” is included as a paper for the first year Diploma program. Syllabus of this book is strictly aligned as per model curriculum of AICTE, and academic content is combined with the concept of outcome-based education.

Book cover five Units Trigonometry, Functions and Limit, Differential Calculus, Complex numbers and partial Fraction, Permutation and Combination and Binomial Theorem. In every unit each topic is written in easy and lucid manner. A set of exercise at the end of each unit is clubbed 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 real-world applications, interesting facts, QR Code for E-resources, mini projects, curiosity topics, sample specification table etc.

3. Students and teacher centric subject materials included in book with balanced and chronological manner.

4. Figures, tables and mathematical equations are inserted to improve clarity of the topics.

5. Short questions, objective questions and long answer exercises are given for practice of students after every chapter.

6. Comprehensive synopsis of formulae for a quick revision of the basic principles.

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- Functions and Limit
- Differential Calculus
- Complex Numbers and Partial Fraction
- Permutation and Combination, Binomial Theorem
- Appendices
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- CO and PO attainment Table
- Index


## Author


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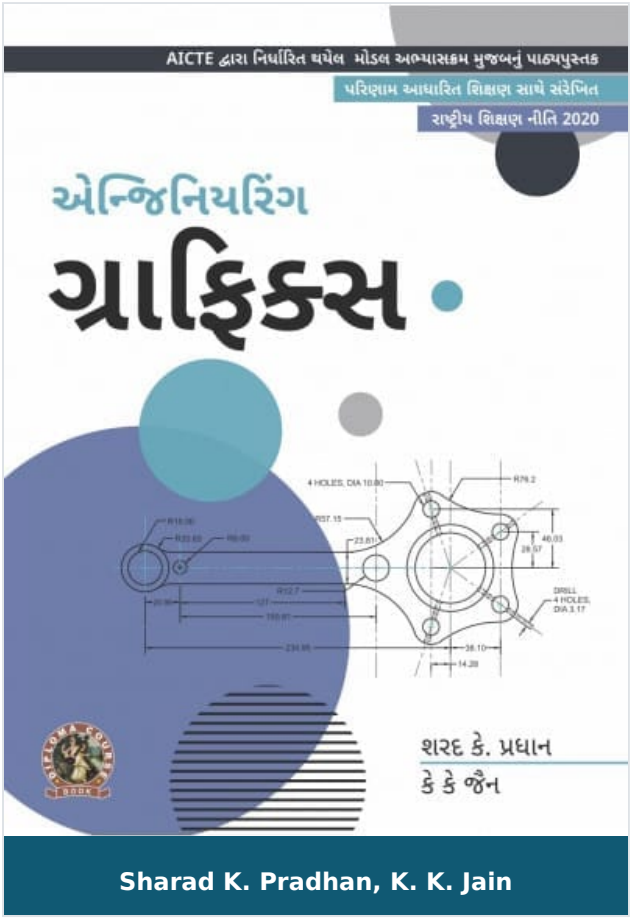


# Engineering Graphics

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## Product Description

“ Engineering Graphics” is a compulsory  paper for the first year Diploma course in Engineering & Technology. Syllabus of this book is strictly aligned as per model curriculum of AICTE, and academic content is amalgamated with the concept of outcome based education. Book covers six topics- Basic Elements of drawing , Orthographic Projections, Isometric Projections, Free Hand Sketcher of Engineering Elements, Computer Aided Drafting Interface, Computer Aided Drafting. 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 Outcomes, Programs Outcomes and Unit Outcomes.

2. 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.

3. Book provides lots of recent information, interesting facts, Codes for E-resources, QR Code for use of ICT, projects, group discussion etc.

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

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

6. Apart from essential information a ‘Know More’ section is also provided in each unit to extend the learning beyond syllabus.

7. Short questions,  objective questions and long answer exercises are given for practice of students after every chapter.

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

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- Orthographic Projections
- Isometric Projections
- Free Hand Sketches of Engineering Elements
- Computer Aided Drafting Interface
- Computer Aided Drafting


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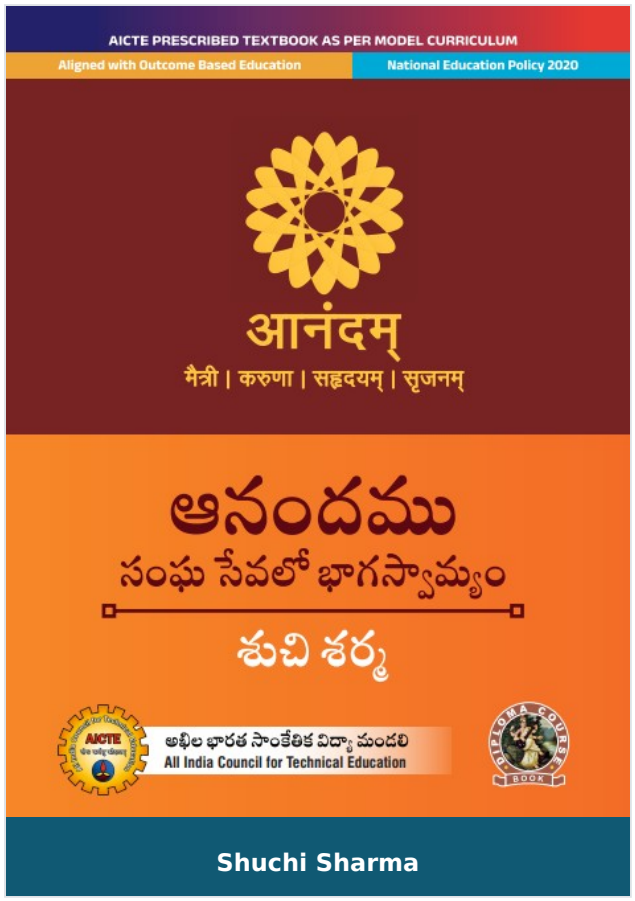


# Aanandam An Act of Community Service

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