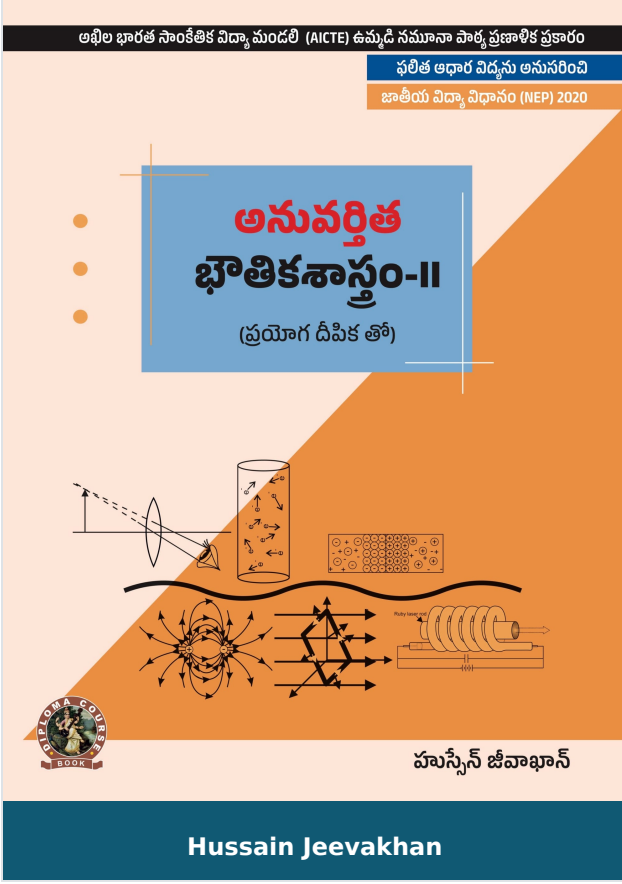




## Applied Physics-II (with Lab Manual)

|                         |                                                                                                 |
|-------------------------|-------------------------------------------------------------------------------------------------|
| <b>Author :</b>         | Hussain Jeevakhan                                                                               |
| <b>ISBN 13 :</b>        | 978-93-91505-95-0                                                                               |
| <b>ISBN 10 :</b>        | 9391505953                                                                                      |
| <b>E-ISBN 13 :</b>      | 978-93-91505-95-0                                                                               |
| <b>Edition :</b>        | 1                                                                                               |
| <b>Pages :</b>          | 292                                                                                             |
| <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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“Applied Physics-II” is a basic science course in the first year of the Diploma program in Engineering & Technology. Contents of this book are stringently aligned as per model curriculum of AICTE and incorporated with the concepts of outcomes-based education(OBE).

Book covers seven topics- Wave motion, Optics, Electrostatics, Current electricity, Electromagnetism, semiconductor physics and Modern physics. Each topic and its subtopics are written from the perspective of a student’s learning and in accord with the NEP 2020 guidelines. Every unit comprises a set of activities and exercise at the end to assist the student’s learning.

Some salient features of the book:

1. Unit Outcomes of each unit are mapped with Course Outcomes and Programs Outcomes.
2. Book Provides relevant interesting facts, QR Code for E-resources and use of ICT and suggested micro projects activities in each unit.
3. Content presented in book in chronological way.
4. Figures, tables and equations are given to improve clarity of the topics.
5. Solved examples are given with systematic steps.
6. MCQ’s, short and long answer questions and unsolved problems of understanding and above levels (Bloom’s Taxonomy) are given for learning reinforcement of students and as per OBE.

## Table Of Contents

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- Foreword,
- Acknowledgement,
- Preface,
- Outcome Based Educations,
- Course Outcomes,
- Abbreviations and Symbols,
- List of Figures,
- Guidelines for Teachers,
- Guidelines for Students
- Wave Motion and its applications.
- Optics.
- Electrostatics.
- Current Electricity.
- Electromagnetism.
- Semiconductor physics.
- Modern physics.
- Index

## Author

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### Hussain Jeevakhan

Hussain Jeevakhan-789391505578(DIP126EN) “Applied Physics-II” is a basic science course in the first year of the Diploma program in Engineering & Technology. Contents of this book are stringently aligned as per model curriculum of AICTE and incorporated with the concepts of outcomes-based education(OBE). Book covers seven topics- Wave

motion, Optics, Electrostatics, Current electricity, Electromagnetism, semiconductor physics and Modern physics. Each topic and its subtopics are written from the perspective of a student's learning and in accord with the NEP 2020 guidelines. Every unit comprises a set of activities and exercise at the end to assist the student's learning. Some salient features of the book: | Unit Outcomes of each unit are mapped with Course Outcomes and Programs Outcomes. | Book Provides relevant interesting facts, QR Code for E-resources and use of ICT and suggested micro projects activities in each unit. | Content presented in book in chronological way. | Figures, tables and equations are given to improve clarity of the topics. | Solved examples are given with systematic steps. | MCQ's, short and long answer questions and unsolved problems of understanding and above levels (Bloom's Taxonomy) are given for learning reinforcement of students and as per OBE.



## Engineering Graphics

|                  |                                                                                                                     |
|------------------|---------------------------------------------------------------------------------------------------------------------|
| Author :         | Sharad K. Pradhan, K. K. Jain                                                                                       |
| ISBN 13 :        | 978-93-55380-00-5                                                                                                   |
| ISBN 10 :        | 9355380003                                                                                                          |
| E-ISBN 13 :      | 978-93-55380-00-5                                                                                                   |
| Edition :        | 1                                                                                                                   |
| Pages :          | 328                                                                                                                 |
| Type of book :   | Physical                                                                                                            |
| Year :           | 2023                                                                                                                |
| Language :       | English                                                                                                             |
| Publisher :      | Khanna Publishing House                                                                                             |
| M.R.P :          | Rs 395.00                                                                                                           |
| Categories :     | <a href="#">AICTE Prescribed Textbooks,</a><br><a href="#">Kannada Books, Book Store,</a><br><a href="#">Ebooks</a> |
| Condition Type : | New                                                                                                                 |
| Country Origin : | India                                                                                                               |

## Product Description

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“ 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.

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

## Table Of Contents

---

- Foreword, Acknowledgement, Preface, Outcome Based Educations, Course Outcomes, Abbreviations and Symbols, List of Figures, List of tables Guidelines for Teachers, Guidelines for Students
- Basic Elements of Drawing
- Orthographic Projections
- Isometric Projections
- Free Hand Sketches of Engineering Elements
- Computer Aided Drafting Interface
- Computer Aided Drafting

## Author

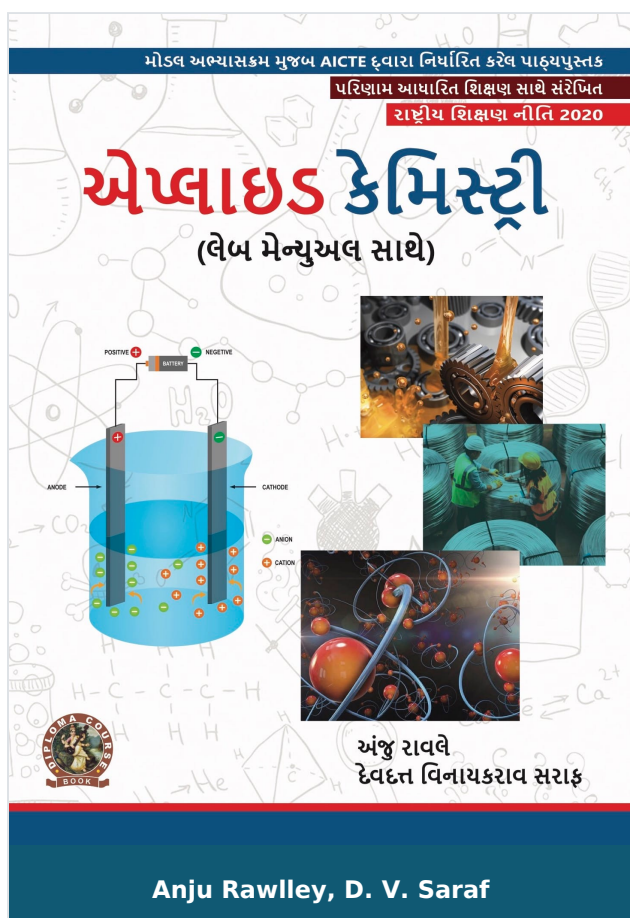
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**Sharad K. Pradhan**

Sharad K. Pradhan

**K. K. Jain**

K. K. Jain



## Applied Chemistry (with Lab Manual)

**Author :** Anju Rawlley, D. V. Saraf

**ISBN 13 :** 978-93-55380-19-7

**ISBN 10 :** 9355380194

**E-ISBN 13 :** 978-93-55380-19-7

**Edition :** First

**Pages :** 236

**Type of book :** Physical

**Year :** 2025

**Language :** English

**Publisher :** Khanna Publishing House

**M.R.P :** Rs 395.00

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

**Condition Type :** New

**Country Origin :** India

## Product Description

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This text book o “Applied Chemistry” is development as per AICTE model curriculum ,2018, for compulsory course on Applied Chemistry of first years Diploma Program in Engineering and Technology. Atomic Structure, Chemical Bonding & Solution, Water, Engineering Materials, Chemistry of fuels & Lubricants and Electrochemistry are the five units of this book, comprising of both practical and theory.

Some salient features of the book:

1. Course Outcomes and Unit Outcomes are written specifically and are mapped with programme Outcomes.
2. Utmost care have been taken to amalgamate the philosophy of outcome based education.
3. The structure of the textbook is comprehensive, where in practical exercises are integral part of each unit.
4. The text is presented in a very simple way with illustrations, examples, tables, flow chart, self -assessment questions and their solutions.
5. Micro projects, points/issue for the creative inquisitiveness & curiosity, know more, video links, case study and summary points are integral part of each unit to facilitate the students to develop the attitude of scientific inquiry, investigate the cause and effect relationship, systematic, scientific & logical thinking , ability to observe, analyse and interpret.
6. To meet the requirement of outcome based education (OBE) and outcome based assessment (OBA), criterion referenced testing (CRT) have been used as an integral part of assessment in each practical.

7. Sample QR codes have been provided in each units on some topics/sub topics for supplementary reading and reinforcing the learning.

## Table Of Contents

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- Foreword
- Acknowledgement
- Preface
- Outcomes Based Educations
- Course Outcomes Abbreviations and Symbols
- List of Figures List of Tables
- Guidelines for Teachers
- Guidelines for students
- Atomic Structure, Chemical Bonding and Solutions
- Water
- Engineering Materials
- Chemistry of Fuels and Lubricants
- Electro Chemistry

## Author

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**Anju Rawlley**

Anju Rawlley Devdatta Vinayakaraao Saraf

**D. V. Saraf**

D. V. Saraf



## Environmental Science

|                         |                                                                                                                     |
|-------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>Author :</b>         | Subrat Roy                                                                                                          |
| <b>ISBN 13 :</b>        | 978-93-55381-51-4                                                                                                   |
| <b>ISBN 10 :</b>        | 9355381514                                                                                                          |
| <b>E-ISBN 13 :</b>      | 978-93-55381-51-4                                                                                                   |
| <b>Edition :</b>        | First                                                                                                               |
| <b>Pages :</b>          | 140                                                                                                                 |
| <b>Type of book :</b>   | Physical                                                                                                            |
| <b>Year :</b>           | 2022                                                                                                                |
| <b>Language :</b>       | English                                                                                                             |
| <b>Publisher :</b>      | Khanna Publishing House                                                                                             |
| <b>M.R.P :</b>          | Rs 395.00                                                                                                           |
| <b>Categories :</b>     | <a href="#">AICTE Prescribed Textbooks,</a><br><a href="#">Bengali Books, Book Store,</a><br><a href="#">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 program 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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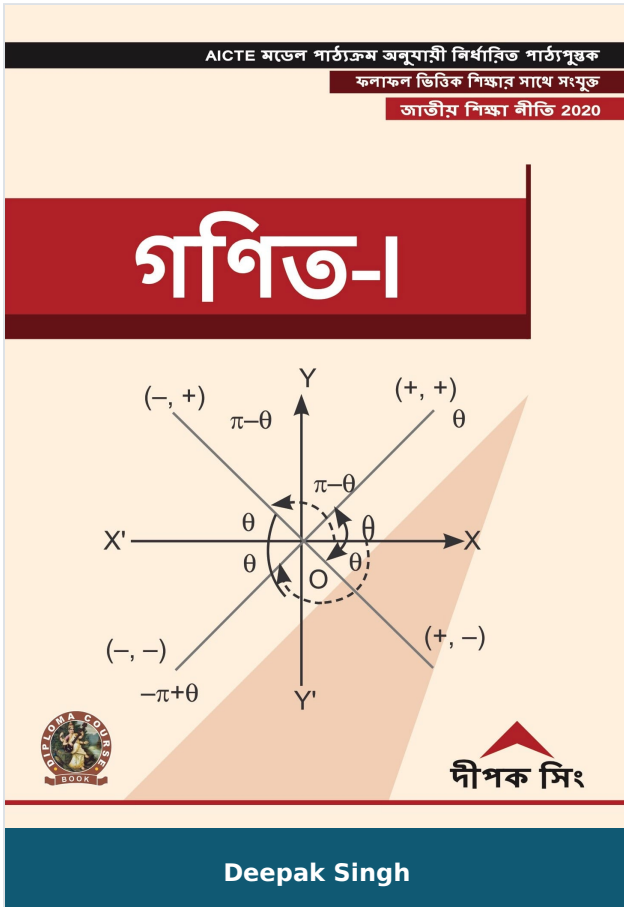
- Foreword,
- Acknowledgement,
- Preface,
- Outcome Based Educations,
- Course Outcomes,
- Abbreviations and symbols,
- List of Figures,
- Guidelines for Teachers,
- Guidelines for Students,
- Ecosystem
- Air and Noise pollution
- Renewable sources of Energy
- Soil waste Management, ISO 14000& Environmental management.
- Important Day Related to Environment
- CO and Po Attainment Table
- Index.

## Author

---

**Subrat Roy**

Subrat Roy



## Mathematics I

**Author :** Deepak Singh

**ISBN 13 :** 978-93-55381-31-6

**ISBN 10 :** 935538131X

**E-ISBN 13 :** 978-93-55381-31-6

**Edition :** First

**Pages :** 192

**Type of book :** Physical

**Year :** 2022

**Language :** English

**Publisher :** Khanna Publishing House

**M.R.P :** Rs 395.00

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

**Condition Type :** New

**Country Origin :** India

## Product Description

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“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.

## Table Of Contents

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

## Author

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**Deepak Singh**

Deepak Singh



## Environmental Science

|                         |                                                                             |
|-------------------------|-----------------------------------------------------------------------------|
| <b>Author :</b>         | Subrat Roy                                                                  |
| <b>ISBN 13 :</b>        | 978-93-55380-18-0                                                           |
| <b>ISBN 10 :</b>        | 9355380186                                                                  |
| <b>E-ISBN 13 :</b>      | 978-93-55380-18-0                                                           |
| <b>Edition :</b>        | First                                                                       |
| <b>Pages :</b>          | 132                                                                         |
| <b>Type of book :</b>   | Physical                                                                    |
| <b>Year :</b>           | 2023                                                                        |
| <b>Language :</b>       | English                                                                     |
| <b>Publisher :</b>      | Khanna Publishing House                                                     |
| <b>M.R.P :</b>          | Rs 395.00                                                                   |
| <b>Categories :</b>     | <a href="#">AICTE Prescribed Textbooks, Hindi 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 program 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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- Foreword,
- Acknowledgement,
- Preface,
- Outcome Based Educations,
- Course Outcomes,
- Abbreviations and symbols,
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- Guidelines for Teachers,
- Guidelines for Students,
- Ecosystem
- Air and Noise pollution
- Renewable sources of Energy
- Soil waste Management, ISO 14000& Environmental management.
- Important Day Related to Environment
- CO and Po Attainment Table
- Index.

## Author

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**Subrat Roy**

Subrat Roy



## Fundamentals of Electricals & Electronics Engineering (with Lab Manual)

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <b>Author :</b>         | Susan S. Mathew, Saji T. Chacko                                                                |
| <b>ISBN 13 :</b>        | 978-93-91505-24-0                                                                              |
| <b>ISBN 10 :</b>        | 9391505244                                                                                     |
| <b>E-ISBN 13 :</b>      | 978-93-91505-24-0                                                                              |
| <b>Edition :</b>        | First                                                                                          |
| <b>Pages :</b>          | 264                                                                                            |
| <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 395.00                                                                                      |
| <b>Categories :</b>     | <a href="#">AICTE Prescribed Textbooks,</a><br><a href="#">Tamil Books, Book Store, Ebooks</a> |
| <b>Condition Type :</b> | New                                                                                            |
| <b>Country Origin :</b> | India                                                                                          |

## Product Description

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“Fundamentals of Electrical & Electronics Engineering” 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.

Books covers six topics- Overview of Electronics Components and Signals. Overview of Analog Circuits. Overview of Digital Electronics, Electric and magnetic Circuits, A.C. Circuits and Transformer and Machines. Each topic is written in easy and lucid manner. A set of exercises at the end of each units to test the student’s comprehension is provided.

Some salient features of the book:

- . Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.
- . The practical applications of the topics are discussed along with micro projects and activities for generating further curiosity as well as improving problem solving capacity.
- . Book provides lots of vital facts, concepts, principles and other interesting information.
- . QR Codes of video resources and websites to enhance use of ICT for relevant supportive knowledge have been provided.
- . Student and teacher centric course materials included in book in balanced manner.
- . Figures, tables, equations and comparative charts are inserted to improve clarity of the topics.
- . Objective questions and subjective questions are given for practices of students at the end of each unit.
- . Solved and unsolved problems including numerical examples are solved with systematic steps.

## Table Of Contents

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- Foreword,
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- Abbreviations and symbols,
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- Guidelines for Students,
- Overview of Electronic Components and Signals.
- Overview of Analog Circuits.
- Overview of Digital Electronics.
- Electric and Magnetic Circuits.
- AC Circuits.
- Transformer and Machines.
- Appendices
- Answer to Objective Questions
- Reference for Further Learning
- Co and PO Attainment Table
- Index

## Author

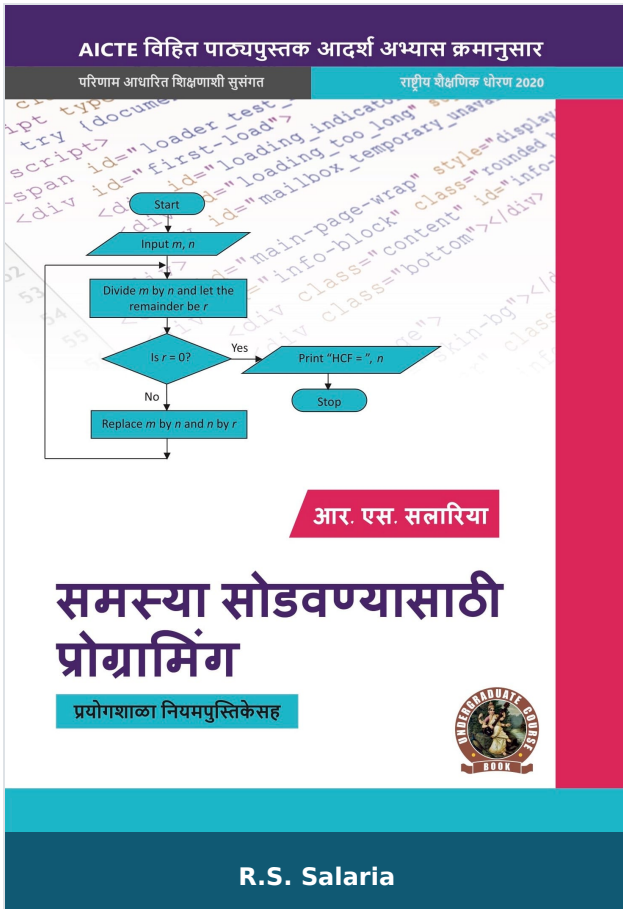
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**Susan S. Mathew**

Susan S. Mathew

**Saji T. Chacko**

Saji T. Chacko </p>



## Programming for Problem Solving (with Lab Manual)

**Author :** R.S. Salaria

**ISBN 13 :** 978-93-55380-21-0

**ISBN 10 :** 9391505216

**E-ISBN 13 :** 978-93-55380-21-0

**Edition :** First

**Pages :** 368

**Type of book :** Physical

**Year :** 2021

**Language :** English

**Publisher :** Khanna Publishing House

**M.R.P :** Rs 395.00

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

**Condition Type :** New

**Country Origin :** India

## Product Description

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This textbook is designed as per the model curriculum of AICTE for the first year students of all branches of undergraduate program in Engineering & Technology (BE/B. Tech). The subject of programming for problem Solving aims at developing problem solving skills among the students and the skills to create programs in C language for their implementation. This book emphasizes to empower the students to grasp the skills required for problem solving and to develop deep understanding of the constructs of C language. These aspects of the subject are well illustrated through enormous solved programming problems.

Salient Features:

1. Simple and lucid language that enables students to grasp the subject.
  2. Demonstrates the elegant programming style.
  3. 165+ ready to run programs for reference and to illustrate the program development process.
  4. 135+ Short answer type questions to provide an opportunity for self-assessment of the fundamental concepts learned by answering them precisely.
  5. 165+ multiple choice questions to provide an opportunity to synthesize the fundamental concepts.
  6. 90+ Programming problems to provide an opportunity to harness programming skills.
- Programming for Problem Solving (with Lab Manual) (Marathi).

## Table Of Contents

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- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Programme Outcome (POs)
- Course Outcomes
- Abbreviations and Symbols
- List of Figures
- List of Tables
- Guidelines for Teacher
- Guidelines for Students
- Introduction
- to Programming
- Arithmetic
- Expressions and Precedence
- Conditional
- Branching and Loops
- Arrays
- Basic
- Algorithms
- Functions
- Recursion
- Structures

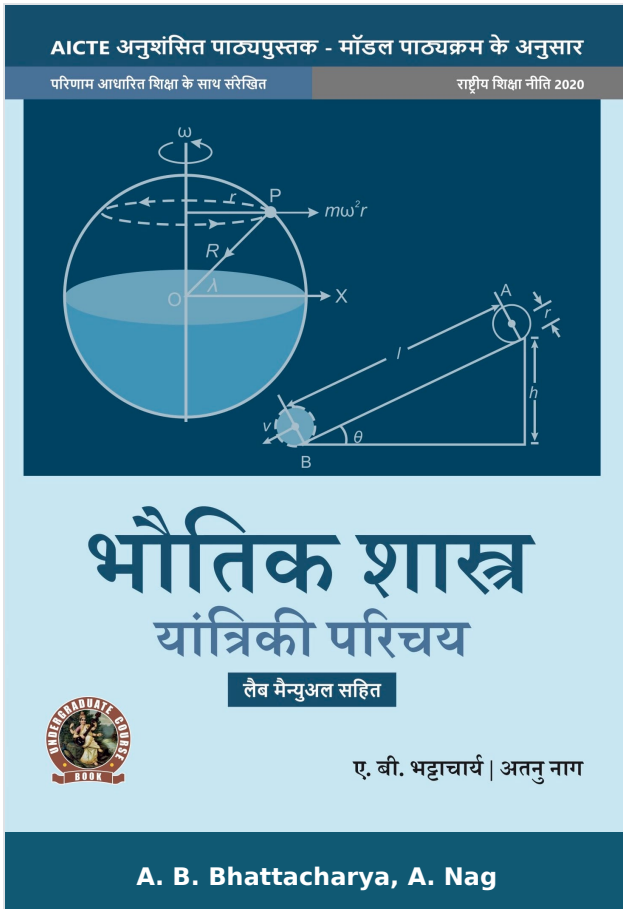
- Pointers
- File
- Handling
- References for further learning
- Co and PO attainment Table
- Index

## Author

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### **R.S. Salaria**

Prof. R.S. Salaria is a superior teacher, a prolific author and a great motivator. He is an alumnus of IIT, Delhi. He is a Certified Software Quality professional by Ministry of Information Technology, Govt. of India: Sun Certified Programmer as well as Sun Certified Trainer by SUN Microsystems. He is a life member of computer society of India, Mumbai: Institution of Electronics and Telecommunication Engineers, New Delhi: Indian Society for Technical Education, New Delhi: Punjab Academy of Sciences, Patiala. Presently, he is talking initiatives to Sensitize the citizens of this great country about their fundamental responsibilities towards society and seeking their contributions to make the society a wonderful place for happy and peaceful living. </p>



## Physics (Introduction to Mechanics) (with Lab Manual)

|                         |                                                                             |
|-------------------------|-----------------------------------------------------------------------------|
| <b>Author :</b>         | A. B. Bhattacharya, A. Nag                                                  |
| <b>ISBN 13 :</b>        | 978-93-55381-33-0                                                           |
| <b>ISBN 10 :</b>        | 9355381336                                                                  |
| <b>E-ISBN 13 :</b>      | 978-93-55381-33-0                                                           |
| <b>Edition :</b>        | First                                                                       |
| <b>Pages :</b>          | 240                                                                         |
| <b>Type of book :</b>   | Physical                                                                    |
| <b>Year :</b>           | 2023                                                                        |
| <b>Language :</b>       | English                                                                     |
| <b>Publisher :</b>      | Khanna Publishing House                                                     |
| <b>M.R.P :</b>          | Rs 495.00                                                                   |
| <b>Categories :</b>     | <a href="#">AICTE Prescribed Textbooks, Hindi Books, Book Store, Ebooks</a> |
| <b>Condition Type :</b> | New                                                                         |
| <b>Country Origin :</b> | India                                                                       |

## Product Description

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Physics: Introduction to Mechanics 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 Mechanics to tackle 21 century and onward engineering challenges and address the related questions. Some Salient features of the book: 1. Expose basic science to the engineering students to the fundamentals of physics and to enable them to get an insight of the subject. 2. To develop knowledge on critical questions solved and supplementary problems covering all type of medium and advanced level 3. Under problems in a very logical and systematic manner. 4. Some essential information for the user the heading "Know more" for clarifying some basic 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 sectors or in national laboratories at the very forefront of technology.

## Author

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### 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 honored 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 lightning is a diminishing function of radar wavelength, contrary to contemporary thinking". Dr.

### A. Nag

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.



## Physics (Introduction to Mechanics) (with Lab Manual)

**Author :** A. B. Bhattacharya, A. Nag

**ISBN 13 :** 978-93-91505-76-9

**ISBN 10 :** 9391505767

**E-ISBN 13 :** 978-93-91505-76-9

**Edition :** First

**Pages :** 252

**Type of book :** Physical

**Year :** 2022

**Language :** English

**Publisher :** Khanna Publishing House

**M.R.P :** Rs 395.00

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

**Condition Type :** New

**Country Origin :** India

## Product Description

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**Physics: Introduction to Mechanics** 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 Mechanics to tackle 21 century and onward engineering challenges and address the related questions.

## Some Salient features of the book:

- € €1. Expose basic science to the engineering students to the fundamentals of physics and to enable them to get an insight of the subject.
- € €2. To develop knowledge on critical questions solved and supplementary problems covering all type of medium and advanced level
- € €3. Under problems in a very logical and systematic manner.
- € €4. Some essential information for the user the heading "Know more" for clarifying some basic 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 sectors or in national laboratories at the very forefront of technology.

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## Author

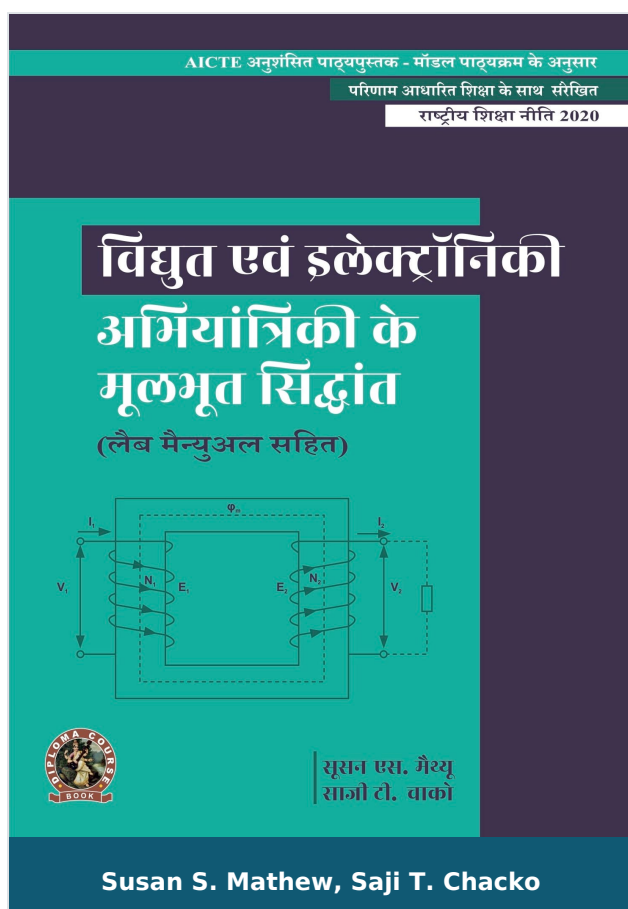
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### A. B. Bhattacharya

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 honored 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 lightning is a diminishing function of radar wavelength, contrary to contemporary thinking". Dr.

### A. Nag

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.



## Fundamentals of Electrical and Electronics Engineering (with Lab Manual)

|                         |                                                                             |
|-------------------------|-----------------------------------------------------------------------------|
| <b>Author :</b>         | Susan S. Mathew, Saji T. Chacko                                             |
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| <b>Country Origin :</b> | India                                                                       |

## Product Description

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“Fundamentals of Electrical & Electronics Engineering” 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.

Books covers six topics- Overview of Electronics Components and Signals. Overview of Analog Circuits. Overview of Digital Electronics, Electric and magnetic Circuits, A.C. Circuits and Transformer and Machines. Each topic is written in easy and lucid manner. A set of exercises at the end of each units to test the student’s comprehension is provided.

Some salient features of the book:

1. Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.
2. The practical applications of the topics are discussed along with micro projects and activities for generating further curiosity as well as improving problem solving capacity.
3. Book provides lots of vital facts, concepts, principles and other interesting information.
4. QR Codes of video resources and websites to enhance use of ICT for relevant supportive knowledge have been provided.
5. Student and teacher centric course materials included in book in balanced manner.
6. Figures, tables, equations and comparative charts are inserted to improve clarity of the topics.
7. Objective questions and subjective questions are given for practices of students at the end of each unit.
8. Solved and unsolved problems including numerical examples are solved with systematic steps.

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- AC Circuits.
- Transformer and Machines.
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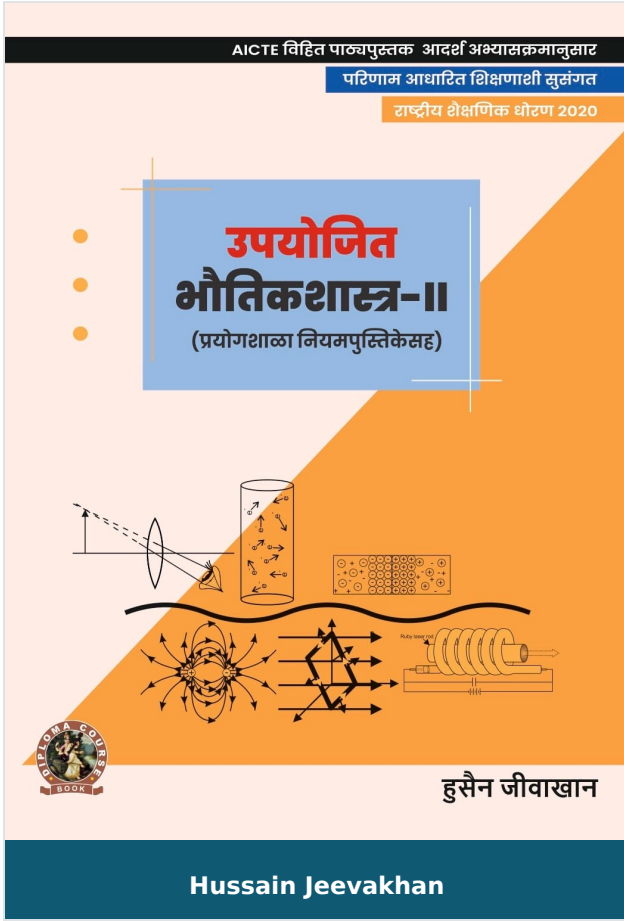
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**Susan S. Mathew**

Susan S. Mathew

**Saji T. Chacko**

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## Applied Physics-II (with Lab Manual)

**Author :** Hussain Jeevakhan

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## Product Description

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“Applied Physics-II” is a basic science course in the first year of the Diploma program in Engineering & Technology. Contents of this book are stringently aligned as per model curriculum of AICTE and incorporated with the concepts of outcomes-based education(OBE).

Book covers seven topics- Wave motion, Optics, Electrostatics, Current electricity, Electromagnetism, semiconductor physics and Modern physics. Each topic and its subtopics are written from the perspective of a student’s learning and in accord with the NEP 2020 guidelines. Every unit comprises a set of activities and exercise at the end to assist the student’s learning.

Some salient features of the book:

1. Unit Outcomes of each unit are mapped with Course Outcomes and Programs Outcomes.
2. Book Provides relevant interesting facts, QR Code for E-resources and use of ICT and suggested micro projects activities in each unit.
3. Content presented in book in chronological way.
4. Figures, tables and equations are given to improve clarity of the topics.
5. Solved examples are given with systematic steps.
6. MCQ’s, short and long answer questions and unsolved problems of understanding and above levels (Bloom’s Taxonomy) are given for learning reinforcement of students and as per OBE.

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- Guidelines for Students
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- Optics
- Electrostatics
- Current Electricity
- Electromagnetism
- Semiconductor physics
- Modern physics
- Index

## Author

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### Hussain Jeevakhan

Hussain Jeevakhan-789391505578(DIP126EN) “Applied Physics-II” is a basic science course in the first year of the Diploma program in Engineering & Technology. Contents of this book are stringently aligned as per model curriculum of AICTE and incorporated with the concepts of outcomes-based education(OBE). Book covers seven topics- Wave

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