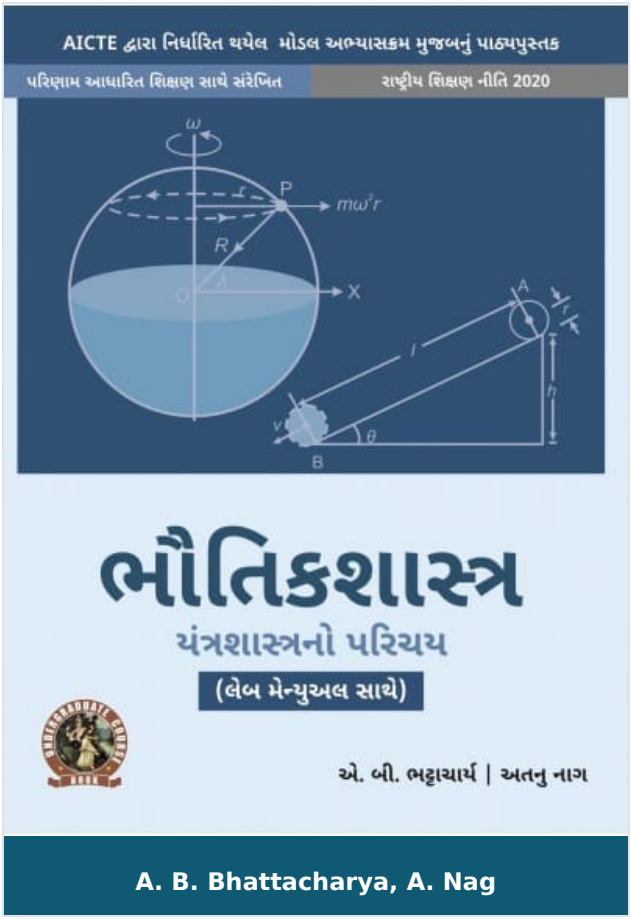

Physics (Introduction to Mechanics) (with Lab Manual)

Author :	A. B. Bhattacharya, A. Nag
ISBN 13 :	978-93-55381-66-8
ISBN 10 :	9355381662
E-ISBN 13 :	978-93-55381-66-8
Edition :	First
Pages :	244
Type of book :	Physical
Year :	2023
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

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:

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 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.

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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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- Electrostatics in Linear Dielectric Medium
- Magnetostatics
- Magnetostatics in Linear Dielectric Medium
- Faraday’s Law
- Maxwell’s Equations
- Electromagnetic Waves
- Table of Physical Constants
- Appendices
- Annexures
- References for Further learning
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- Index

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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.

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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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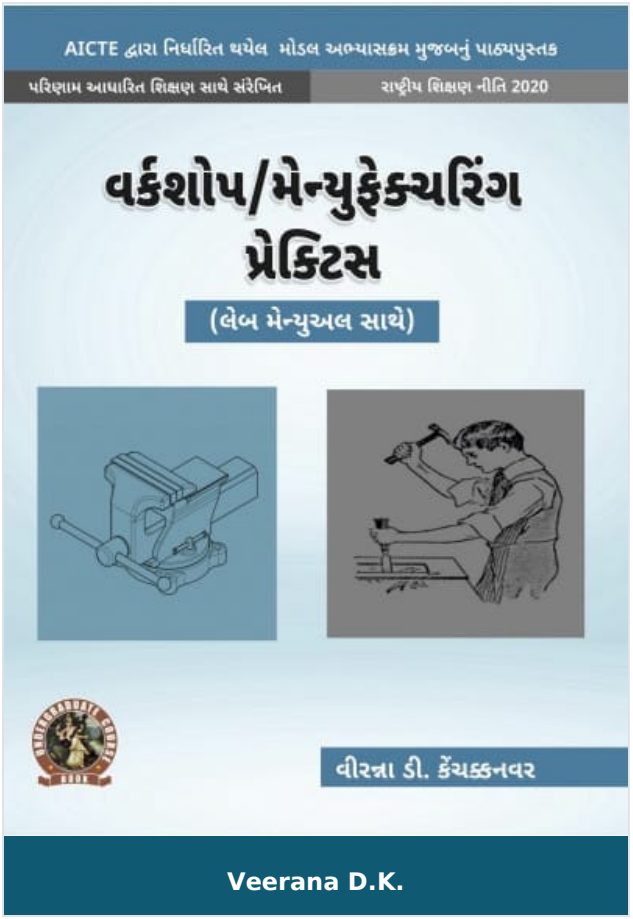

Workshop / Manufacturing Practices (with Lab Manual)

Author :	Veerana D.K.
ISBN 13 :	978-93-55381-60-6
ISBN 10 :	9355381603
E-ISBN 13 :	978-93-55381-60-6
Edition :	First
Pages :	176
Type of book :	Physical
Year :	2023
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

The textbook on “Workshop/ Manufacturing Practices” is designed to cater the needs of young minds of 21 century. The AICTE model curriculum and National Education Policy has driven a new wave in the technical education. The textbook is designed not only to cater the need of the syllabus but also to look things in a different perspective. The Workshop is the place where the core of learning about different materials, equipment, tools and techniques takes place. Basically the workshop used to prepare the small components by hand tools. Sometimes they may be parts of the large machines or may may be parts for replacement/repairs. In this text book an attempt has been made to connect the conventional tools usage to advanced machine tools usage. The relevant practical examples are quoted to make the readers more comfortable with product and processes. The blooms taxonomy is fallowed in construction of each chapters and exercises. The objective and multiple questions with higher order thinking may help the readers to not only to face the semester end exam even they may help in competitive and other examinations.

Salient Features:

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3. Fitting operations & power tools.
4. Electrical & Electronic.
5. Carpentry.
6. Plastic mounding, glass cutting.
7. Metal casting.
8. Welding (arc welding & gas welding), brazing.

9. Laboratory experiments and models.

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- Guidelines for Students
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- Manufacturing Methods
- CNC Machining, Additive manufacturing, Fitting operations & power tools
- Electrical & Electronic
- Carpentry, Plastic moulding, glass cutting
- Metal casting, welding (arc welding & gas welding), brazing
- Part- B: Workshop Practice Laboratory
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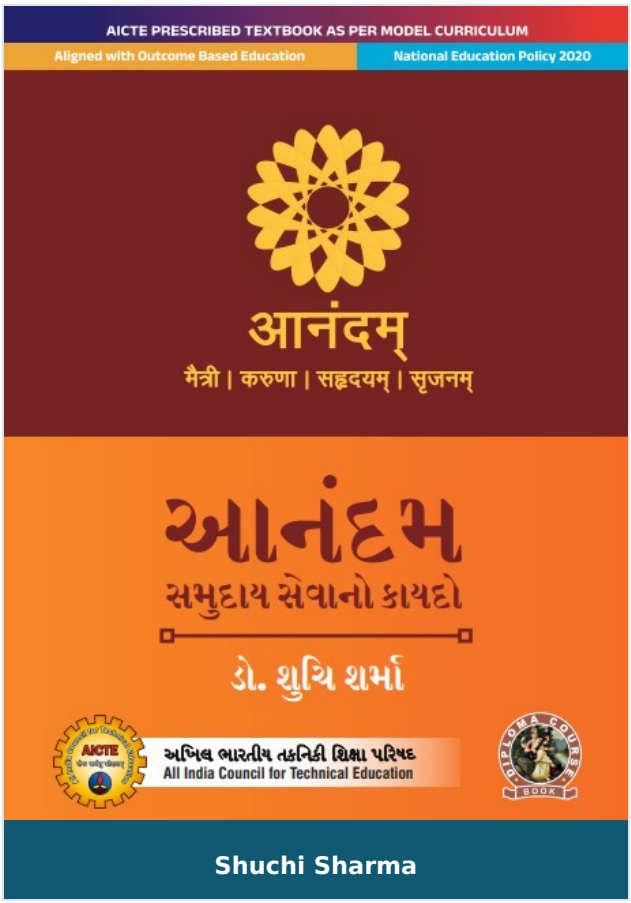

Aanandam An Act of Community Service

Author :	Shuchi Sharma
ISBN 13 :	978-93-55389-09-1
ISBN 10 :	9355389094
E-ISBN 13 :	978-93-55389-09-1
Edition :	First
Pages :	84
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 148.00
Categories :	AICTE Prescribed Textbooks, Gujarati Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Aanandam An Act of Community Service

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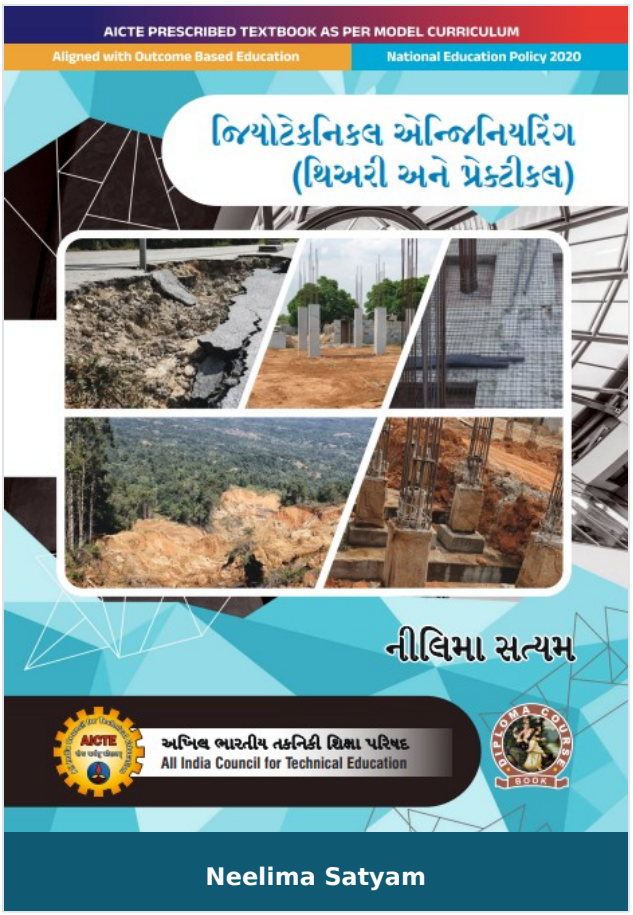

Geotechnical Engineering (Theory & Practicals)

Author :	Neelima Satyam
ISBN 13 :	978-93-55389-31-2
ISBN 10 :	9355389310
E-ISBN 13 :	978-93-55389-31-2
Edition :	First
Pages :	256
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 398.00
Categories :	AICTE Prescribed Textbooks, Gujarati Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Geotechnical Engineering (Theory & Practicals)

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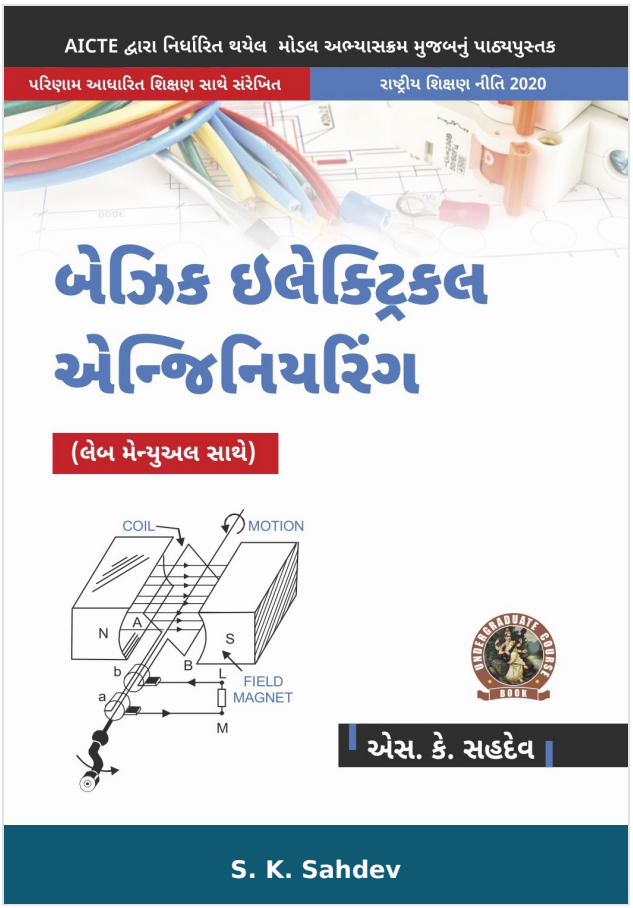

Basic Electrical Engineering (with Lab Manual)

Author :	S. K. Sahdev
ISBN 13 :	978-93-55381-59-0
ISBN 10 :	935538159X
E-ISBN 13 :	978-93-55381-59-0
Edition :	First
Pages :	376
Type of book :	Physical
Year :	2023
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

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

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6. Electrical Installations.

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- DC Circuits
- AC Circuits
- Transformers
- Electrical Machines
- Power Converters
- Electrical Installations

Author

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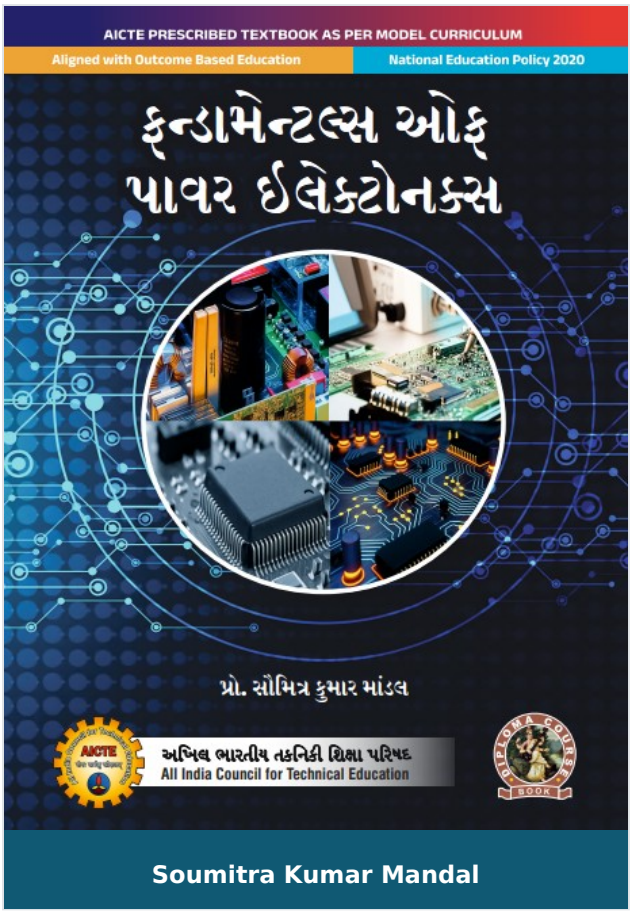

Fundamentals of Power Electronics

Author :	Soumitra Kumar Mandal
ISBN 13 :	978-93-55386-31-1
ISBN 10 :	9355386311
E-ISBN 13 :	978-93-55386-31-1
Edition :	First
Pages :	252
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 398.00
Categories :	AICTE Prescribed Textbooks, Gujarati Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Fundamentals of Power Electronics

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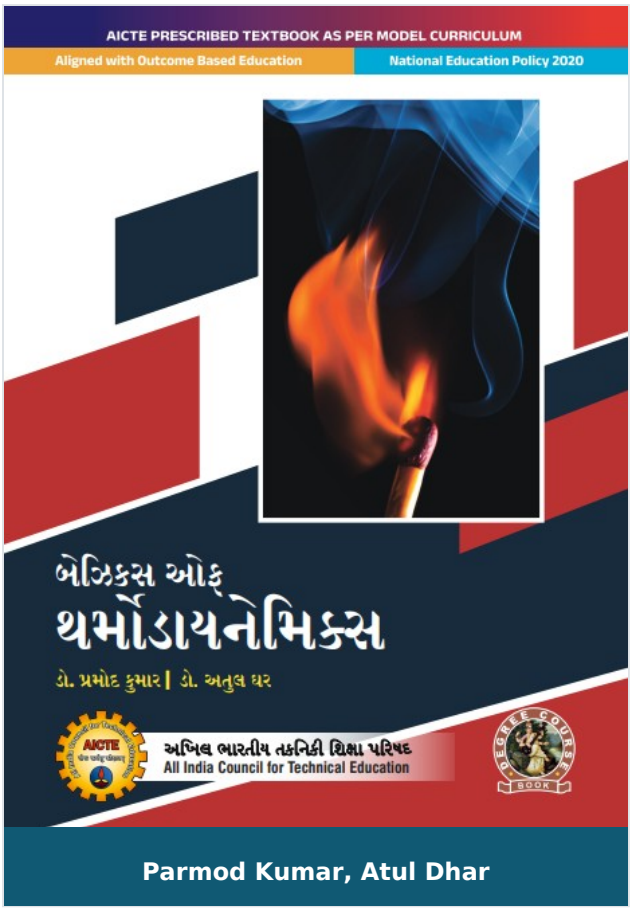

Basics of Thermodynamics

Author :	Parmod Kumar, Atul Dhar
ISBN 13 :	978-93-55386-41-0
ISBN 10 :	9355386419
E-ISBN 13 :	978-93-55386-41-0
Edition :	First
Pages :	288
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 448.00
Categories :	AICTE Prescribed Textbooks, Gujarati Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Basics of Thermodynamics

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

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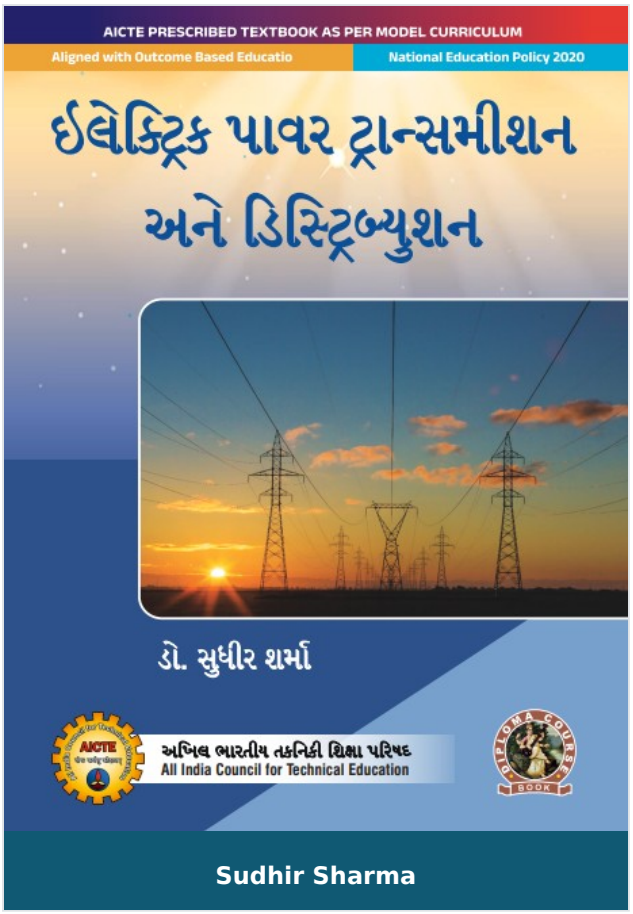

Electric Power Transmission and Distribution

Author :	Sudhir Sharma
ISBN 13 :	978-93-55384-36-2
ISBN 10 :	935538436X
E-ISBN 13 :	978-93-55384-36-2
Edition :	First
Pages :	296
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 468.00
Categories :	AICTE Prescribed Textbooks, Gujarati Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Electric Power Transmission and Distribution

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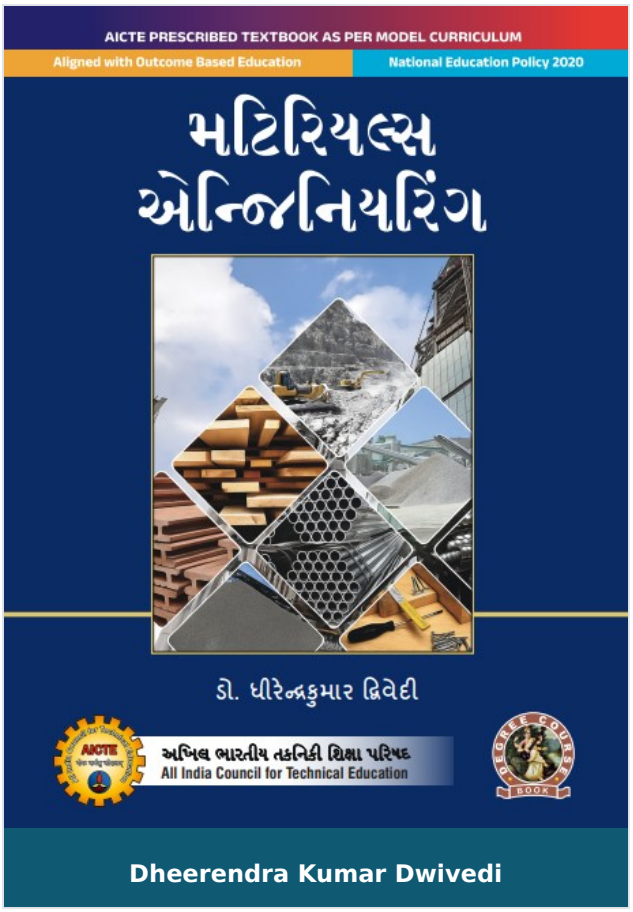

Materials Engineering

Author :	Dheerendra Kumar Dwivedi
ISBN 13 :	978-93-55384-33-1
ISBN 10 :	9355384335
E-ISBN 13 :	978-93-55384-33-1
Edition :	First
Pages :	320
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 498.00
Categories :	AICTE Prescribed Textbooks, Gujarati Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Materials Engineering

Materials play very important in development of efficient and reliable products, and systems leading to the improved life of society. Material affects the design and manufacturing of products and systems significantly. Therefore, it is extremely important for mechanical, production, manufacturing and material engineers to have a systematic understanding on fundamental of material science affecting microstructure and mechanical properties coupled techniques and approaches available to modify and improve properties as per need of application. The book entitled “Materials Engineering” developed as per model curriculum of AICTE for 4th semester student of subject Materials Engineering

Salient Features:

- Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.
- In start of eads unit leaming 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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- Unit Summary
- Exercises
- Practical
- Know More
- References and Suggested Readings

Author

Dheerendra Kumar Dwivedi

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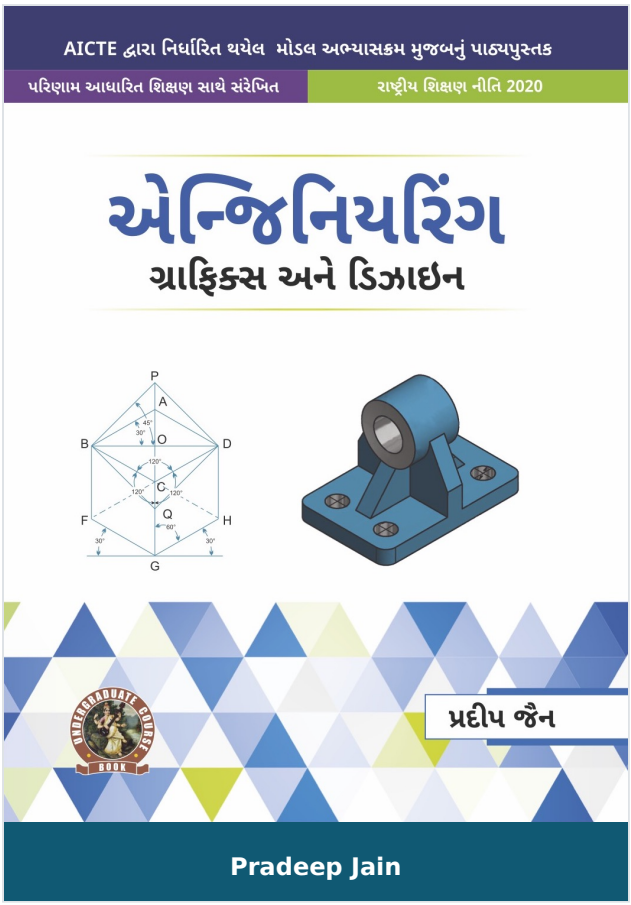

Engineering Graphics & amp; Design

Author :	Pradeep Jain
ISBN 13 :	978-93-55381-58-3
ISBN 10 :	9355381581
E-ISBN 13 :	978-93-55381-58-3
Edition :	First
Pages :	256
Type of book :	Physical
Year :	2023
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

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.
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3. Projection of Solids.
4. Section of Solids and Development of Surfaces.
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6. Overview of Computer Graphics.
7. CAD Drawing.
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- Guidelines for Students
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- Orthographic Projection
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- Sectional Views of Solids
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- Customisation &CAD
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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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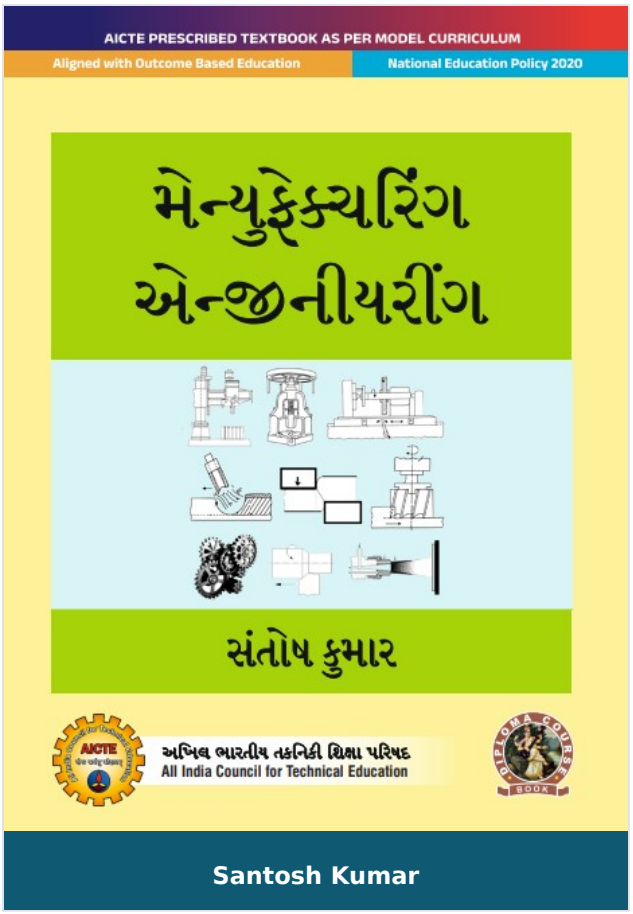

Manufacturing Engineering

Author :	Santosh Kumar
ISBN 13 :	978-93-55385-24-6
ISBN 10 :	9355385242
E-ISBN 13 :	978-93-55385-24-6
Edition :	First
Pages :	392
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 598.00
Categories :	AICTE Prescribed Textbooks, Gujarati Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Manufacturing Engineering

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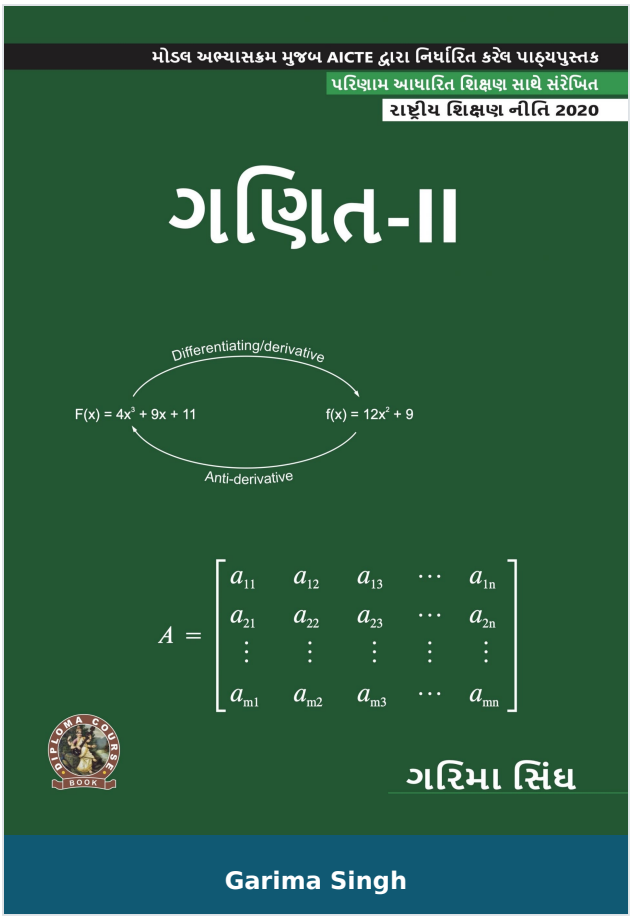

Mathematics - II

Author :	Garima Singh
ISBN 13 :	978-93-55380-43-2
ISBN 10 :	9355380437
E-ISBN 13 :	978-93-55380-43-2
Edition :	First
Pages :	156
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

“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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