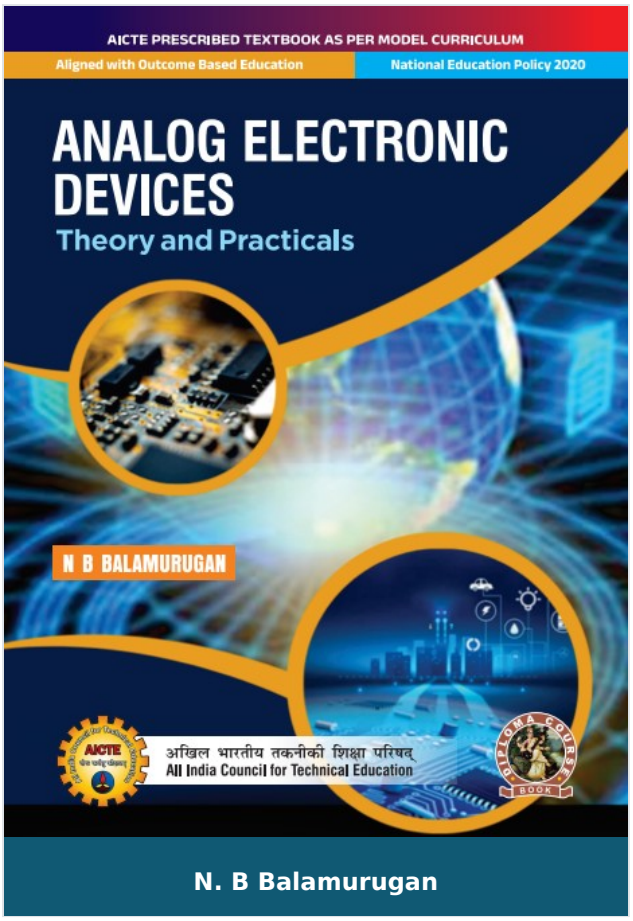

Analog Electronic Devices: Theory and Practicals

Author :	N. B Balamurugan
ISBN 13 :	978-93-55383-80-8
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E-ISBN 13 :	978-93-55383-80-8
Edition :	First
Pages :	272
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Publisher :	Khanna Publishing House
M.R.P :	Rs 498.00
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Condition Type :	New
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Product Description

Analog Electronic Devices: Theory and Practicals

This book gives detailed description about quantum Mechanics, quantum theory of solide, semiconductor material physics, and semiconductor device physics together. Logical organization and a wide variety or problems with their stop-by-stop solutions makes this book a perfect offering on the subject.

Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR code for E-resources, QR code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a ‘know more’ section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- Solved and unsolved problems including numerical examples are solved with systematic steps.

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- Semiconductor Diodes
- Application of Diode
- Bipolar Junction Transistor
- Field Effect Transistor
- Integrated Circuit Fabrication Process
- Table of Physical Constants
- Index

Author

N. B Balamurugan

Prof. N. B Balamurugan Professor, Department of Electronics and Communication Engineering, Thiagarajar College of Engineering, Madurai

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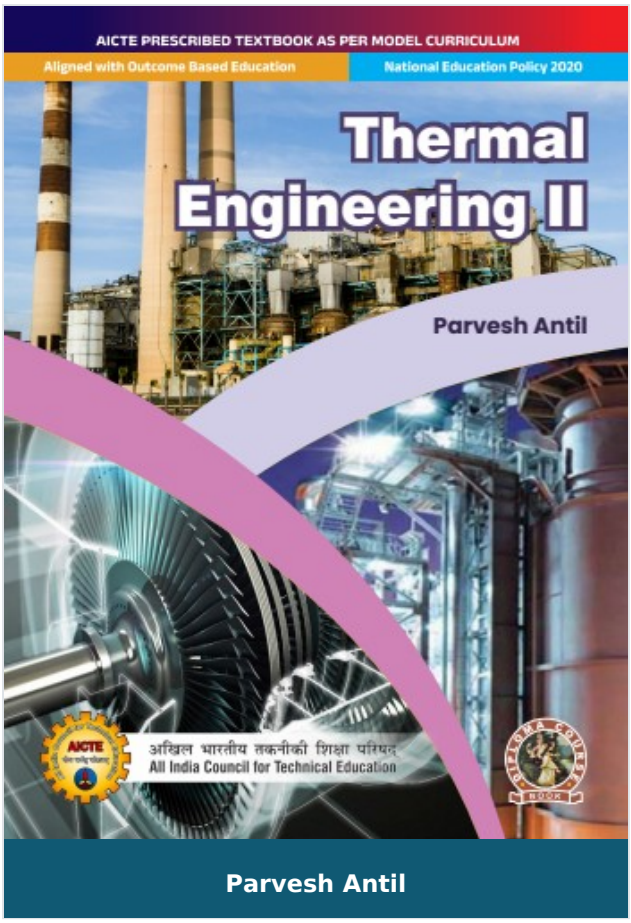

Thermal Engineering- II

Author :	Parvesh Antil
ISBN 13 :	978-93-55389-83-1
ISBN 10 :	9355389833
E-ISBN 13 :	978-93-55389-83-1
Edition :	First
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Type of book :	Physical
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Publisher :	Khanna Publishing House
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Condition Type :	New
Country Origin :	India

Product Description

Thermal Engineering- II

Thermal Engineering 2 is a fundamental subject for engineering students in the mechanical Engineering domain, providing a foundation for logical and analytical thinking. Thermal systems are crucial for regulating temperatures and facilitating energy transfer in a wide range of applications, including building heating and cooking, power production, and industrial operations. The aim of this book is to familiarize the students with the various thermal systems so that they can thing big and innovative for future energy requirements.

Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR code for E-resources, QR code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a ‘know more’ section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.

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

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- Steam Nozzles
- Steam Turbines
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Author

Parvesh Antil

Dr. Parvesh Antil Assistant Professor, Department of Basic Engineering College of Agricultural Engineering & Technology

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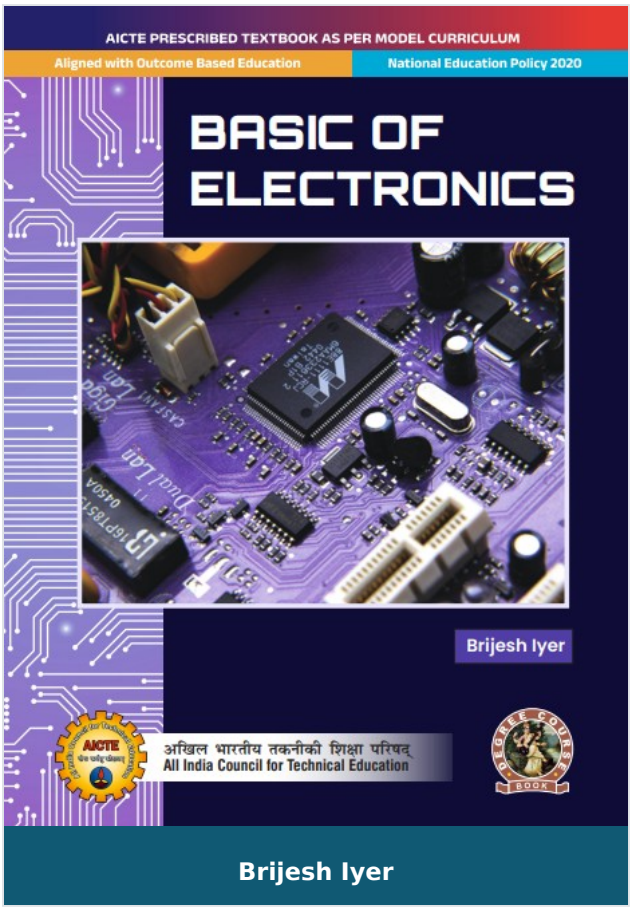

Basic of Electronics

Author :	Brijesh Iyer
ISBN 13 :	978-93-55388-08-7
ISBN 10 :	935538808X
E-ISBN 13 :	978-93-55388-08-7
Edition :	First
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Publisher :	Khanna Publishing House
M.R.P :	Rs 428.00
Categories :	AICTE Prescribed Textbooks, English Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Basic of Electronics

This text book on Basic Electronics provides foundation of the subject to the reader. It familiarizes readers to important basic electronics engineering concepts of audio, video and consumer electronics devices used in daily affairs. The main concept of this book is aligned with the model curriculum of AICTE followed by concept of outcome-based education as per National Education Policy (NEP) 2020.

Salient Features:

- Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.
- In 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 etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures and tables are inserted to improve clarity of the topics.
- Apart from essential information a ‘Self-study questions and MCQ’ section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- Solved and unsolved problems including numerical examples are solved with systematic steps.

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Author

Brijesh Iyer

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Dr. Babasaheb Ambedkar Technological University, Lonere Maharashtra

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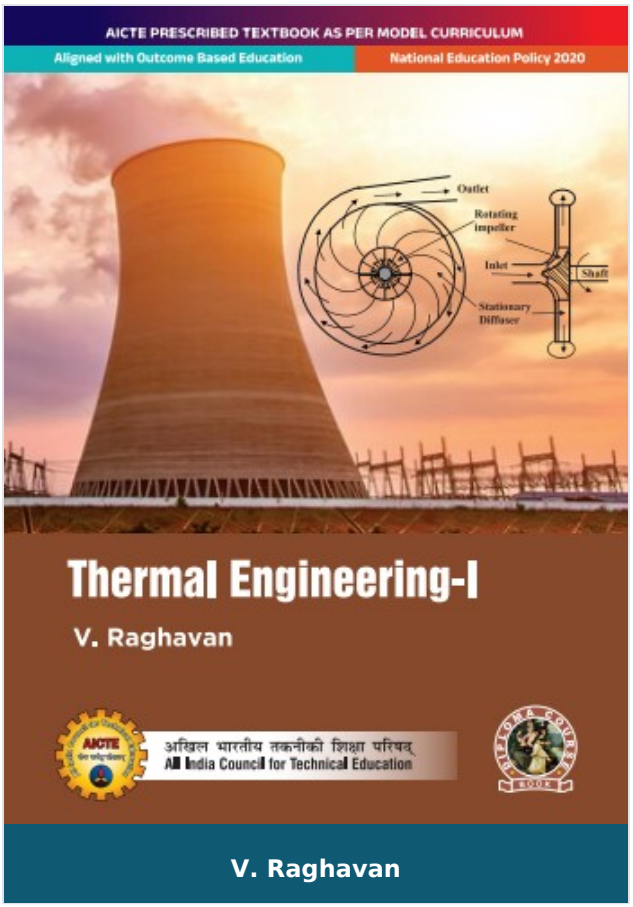

Thermal Engineering- I

Author :	V. Raghavan
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ISBN 10 :	9355389019
E-ISBN 13 :	978-93-55389-01-5
Edition :	First
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Publisher :	Khanna Publishing House
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Country Origin :	India

Product Description

Thermal Engineering- I

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

Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR code for E-resources, QR code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.

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- Apart from essential information a ‘know more’ section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- Solved and unsolved problems including numerical examples are solved with systematic steps.

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- CO and PO Attainment Table
- Index

Author

V. Raghavan

Dr. V. Raghavan

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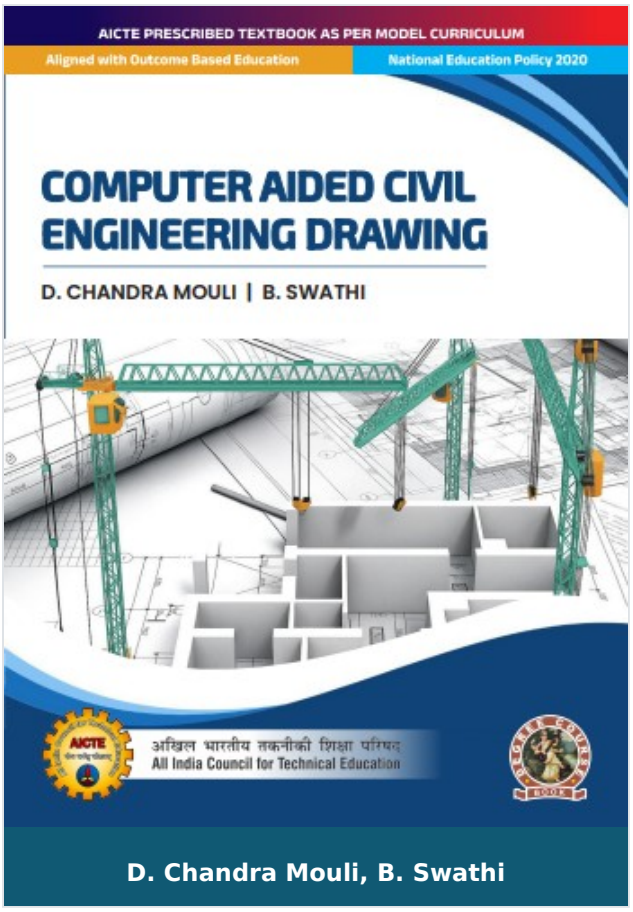

Computer Aided Civil Engineering Drawing

Author :	D. Chandra Mouli, B. Swathi
ISBN 13 :	978-93-55382-18-4
ISBN 10 :	9355382189
E-ISBN 13 :	978-93-55382-18-4
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Product Description

Computer Aided Civil Engineering Drawing

Computer Aided Civil Engineering Drawing offers a wide range of knowledge on developing civil engineering drawing using computer-aided drawing tools. This book serves the students as a resource to understand the basics of developing drawings in a standard procedure.

Salient Features:

- Detailed outcomes and applications are listed for each unit.
- Each unit starts with specifics, pre requisites, and preparing the students for effective understanding of the topic.
- The book is capsulated with Wall the information required to develop drawings from planning stage to execution stage.
- A detailed discussion on all the commands used in Auto CAD emphasizes students to learn their best for creating, editing, and texting the drawings.
- The pictorial representation of each topic and technical terms shown enhances the knowledge of the reader by creating a visual impact with real-time construction activities.
- A brief outline of various room dimensions along with their position as per VAASTU sastra gives a glimpse of using ancient principles of Indian architecture.
- Practicals on each concept developed at the end of the book will enhance the understanding of students to prepare various plans, sections, and structural drawings with ease.
- This book acts as a bridging tool for students to meet the present needs of the industry in developing all types of drawings manually as well as using tools like Auto CAD.

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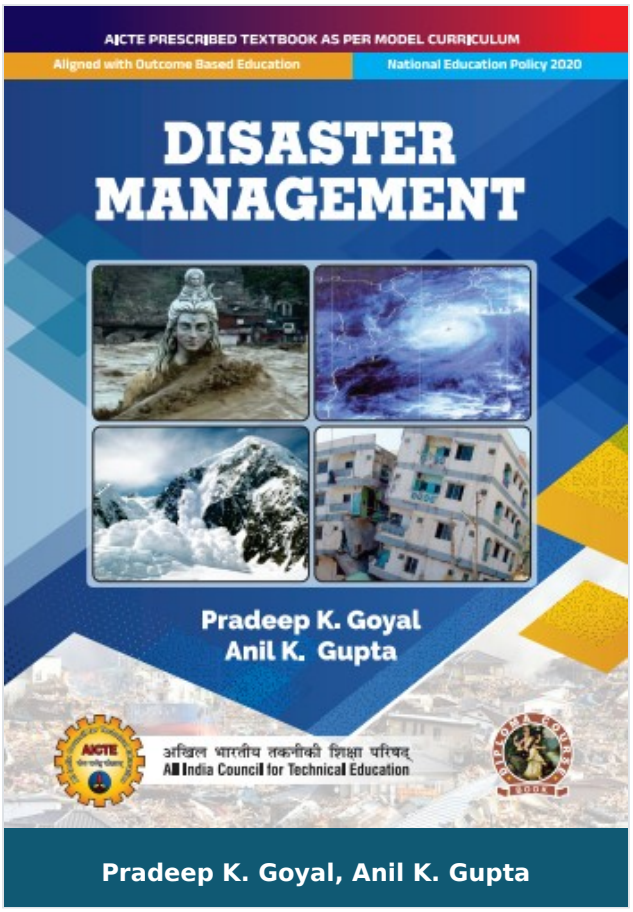

Disaster Management

Author :	Pradeep K. Goyal, Anil K. Gupta
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Product Description

Disaster Management

This book has been written to provide a broad overview of the subject of disaster management for undergraduate students. Main purpose of the book is to help students to understand and develop strategies for effective disaster risk reduction. The main content of this book is aligned with the model curriculum of AICTE followed by the concept of outcome-based education as per National Education Policy (NEP) 2020

Salient Features:

- Content of the book aligned with the mapping of course outcomes, programs outcomes and unit outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completion that unit.
- Book provides lots of recent information, interesting facts, QR Codes for E-resources, QR Codes for use of ICT, projects, group discussion etc.
- Student and teacher centric subject material included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Short questions, objective questions are long answer exercises are given for practice of students after every chapter.

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- DISASTER IMPACTS
- DISASTER RISK REDUCTION
- DISASTERS, ENVIRONMENT AND DEVELOPMENT
- CO AND PO ATTAINMENT TABLE
- INDEX

Author

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Dr. Pradeep K. Goyal Assistant Professor, Dept. of Civil Engineering Delhi Technological University Delhi Prof.

Anil K. Gupta

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Dr. Pradeep K. Goyal Assistant Professor, Dept. of Civil Engineering Delhi Technological University Delhi Prof. Anil Kumar Gupta Professor (Policy-Planning) HoD, Director of Projects & COE, National Institute of Disaster Management (Ministry of Home Affairs) New Delhi

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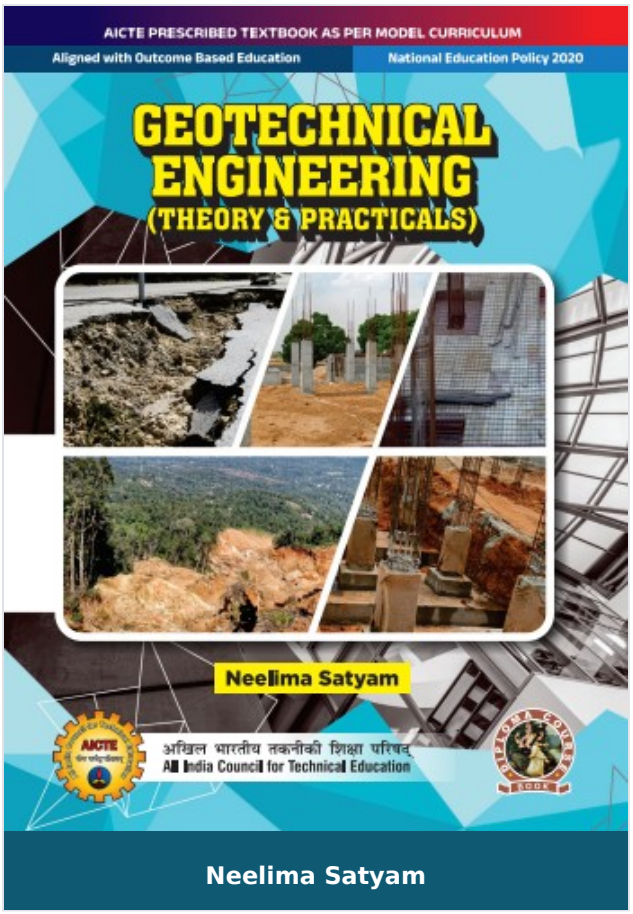

Geotechnical Engineering (Theory & Practicals)

Author :	Neelima Satyam
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Condition Type :	New
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Product Description

Geotechnical Engineering (Theory & Practicals)

This book introduces the fundamentals of Geotechnical Engineering to the students. It covers different applications of soil in the construction industry, with insights to practical application. The book equips the students to deal with real world problems related to Geotechnical Engineering. The main content of this book is aligned with the model curriculum of AICTE followed by the concept of outcome-based education as per the National Education Policy (NEP) 2020.

Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR code for E-resources, QR code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a ‘know more’ section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- Solved and unsolved problems including numerical examples are solved with systematic steps

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- Physical and Index Properties of Soil.
- Permeability and Shear Strength of Soil.
- Bearing Capacity of Soil
- Compaction and Stabilization of Soil
- Appendices
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- Index

Author

Neelima Satyam

Dr. Neelima Satyam Professor, Indian Institute of Technology, Indore, Indore (M.P.), India

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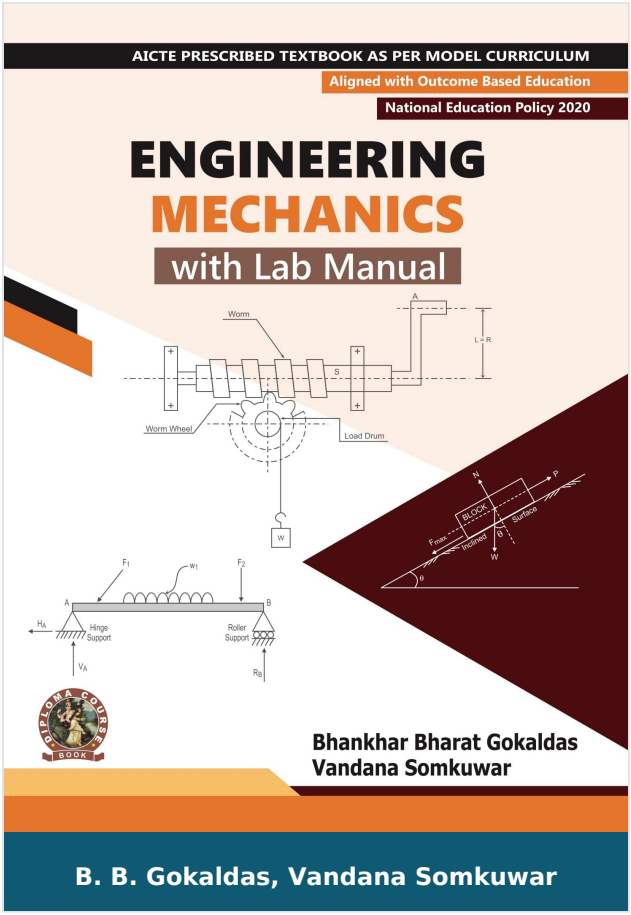

Engineering Mechanics (with Lab Manual)

Author :	B. B. Gokaldas, Vandana Somkuwar
ISBN 13 :	978-93-91505-60-8
ISBN 10 :	9391505600
E-ISBN 13 :	978-93-91505-60-8
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Product Description

“Engineering Mechanics with Lab Manual”is a compulsory for the first year Diploma course in Engineering 7 Technology. Syllabus of this book is strictly align as per model curriculum of AICTE and academic content is amalgamate with the concept of Outcome based Education (OBE).

Book covers is five units- Basic mechanics & force system, Equilibrium, Friction, Centroid and Centre of gravity & simple lifting machine. Each unit written in every easy, systematic and orderly manner. Each unit contains a set of exercise at the end of each unit to test the student’s comprehension. Also in each unit the laboratory practical pertaining to unit is included.

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, tables, equations and activities 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.

6. Solved and unsolved problems including numerical examples taken with systematic steps.

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- Equilibrium
- Friction
- Centroid and Centre of Gravity
- Centroid and Centre of Gravity
- Appendix
- Index

Author

B. B. Gokaldas

B. B. Gokaldas B. G. Gokaldas

Vandana Somkuwar

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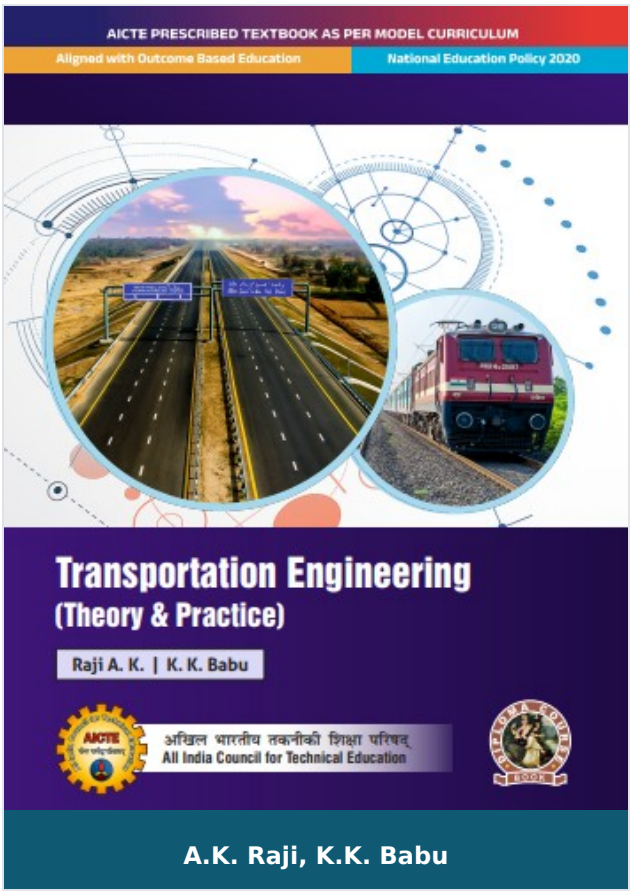

Transportation Engineering (Theory & Practice)

Author :	A.K. Raji, K.K. Babu
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ISBN 10 :	935538677X
E-ISBN 13 :	978-93-55386-77-9
Edition :	First
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Language :	English
Publisher :	Khanna Publishing House
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Condition Type :	New
Country Origin :	India

Product Description

Transportation Engineering (Theory & Practice)

This book gives a comprehensive coverage of Highway Engineering and Railway Engineering, and is primary intended for the second-year Diploma course under the AICTE curriculum. The contents are designed and presented in simple language and lucid style in line with the principles of implementation of outcome-based education, as per the National Education Policy (NEP)2020.

Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR code for E-resources, QR code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a ‘know more’ section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- Solved and unsolved problems including numerical examples are solved with systematic steps.

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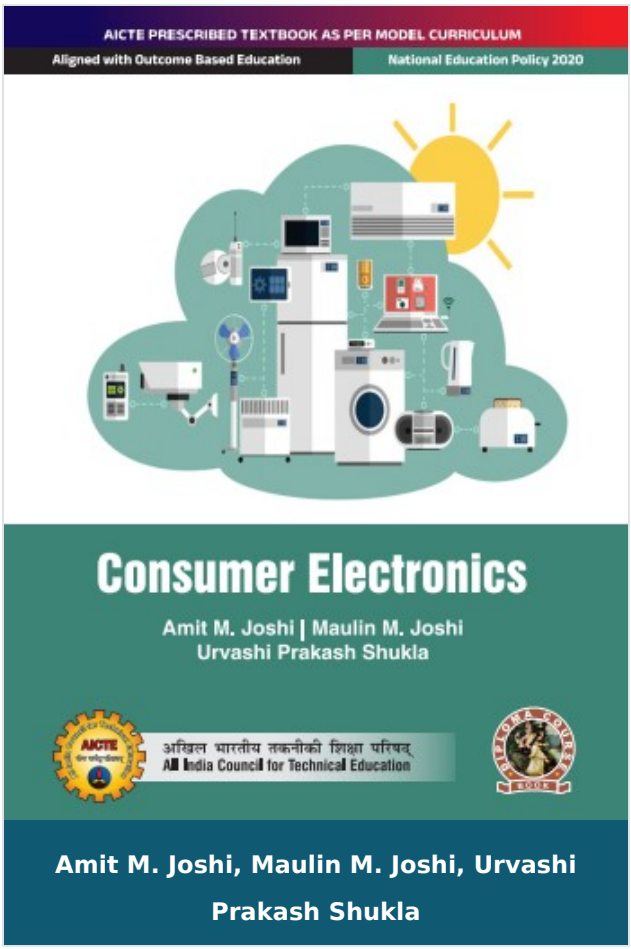

Consumer Electronics

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Product Description

Consumer Electronics

This text book on consumer Electronics provides foundation of the subject to the reader. it familiarizes readers to important basic technical concepts of audio, video and consumer electronics devices used in daily affairs. The main concepts of this boo is aligned with model curriculum of AICTE followed by concept of outcome-based education as per National Education Policy (NEP)2020.

Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR code for E-resources, QR code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a ‘know more’ section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- Solved and unsolved problems including numerical examples are solved with systematic steps.

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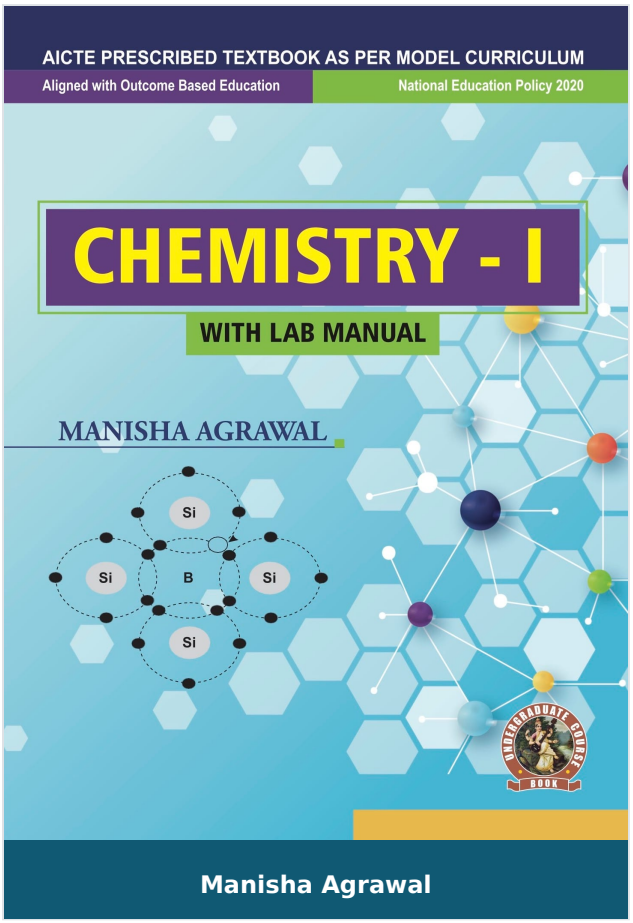

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Product Description

“Chemistry-I” is a compulsory paper for the first year Undergraduate 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 seven topics- Atomic and molecular structure, Spectroscopic Technique and applications, Inter-molecular Forces and Potential Energy Surfaces, Use of Free Energy in Chemical Equilibrium, Periodic Properties, Stereo-chemistry, Organic Reactions and Synthesis of Drug Molecules. Each topic is written is easy and lucid manner. Every chapter contains a set of exercise at the end of each unit to test student’s comprehension.

Salient Features:

Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes. Book Provides lots of recent information, interesting facts, QR Code for E-resources, QR Code for us of ICT, Projects group discussion etc. Students and teacher centric subject materials included in book with balanced and chronological manner. Figures, tables, chemical equations and comparative charts are inserted to improve clarity of the topics. 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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- Intermolecular
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- Use of Free
- Energy in Chemical Equilibria
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- Reactions Synthesis of Drug Molecules
- Annexure
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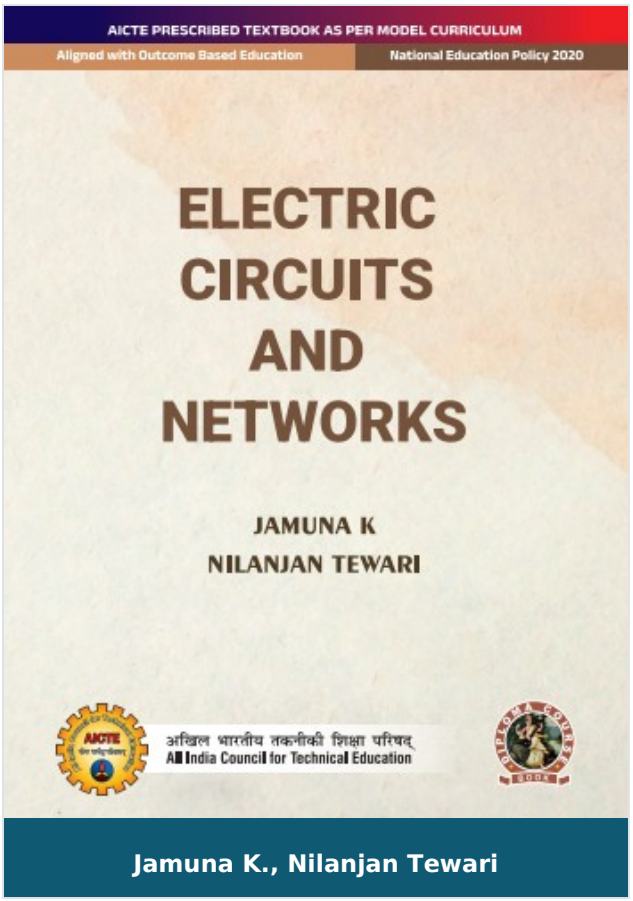

Electric Circuits and Networks

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Product Description

Electric Circuits and Networks

Electric circuits and networks is the fundamental and essential subject for circuit branches in engineering. The book introduces the concepts of single-phase ac circuits and its analysis, generation of the three-phase power supply, star/delta connected three-phase systems operating under balanced and unbalanced loading conditions. Transient response of first and seconder order electric circuits are included in time domain analysis as well as in LaPlace analysis. Two port network parameters and relationship among those parameters are explained. At the end all the chapters, problems are solved using LTspice software for the purpose of practical classes. The major areas covered in this book are

- Phasor and its representation
- Steady state analysis of single-phase ac circuits
- Power and power factor calculations for single-phase ac circuits
- Resonance in series and parallel circuits
- Source transformation
- Single-phase ac circuits analysis: Node analysis and mesh analysis
- Single-phase ac circuits theorems: Thevenin/Norton/Maximum power transfer
- Duality of the electric circuits
- Voltage and current relations for star/Delta connected three-phase systems
- Power and power factor calculations for three-phase ac systems
- Transient response of ac circuits of first and second order ac circuits
- Laplace transform solution of first and second order ac circuits
- Graph theory concepts of electric circuits
- Tie-set analysis and cut-set analysis of electric circuits
- Two-port networks and parameters

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- Network Reduction and Theorems
- Three Phase Circuits
- Transient Response of First and Second Order Electric Circuits
- Graph Theory
- CO and PO Attainment table
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