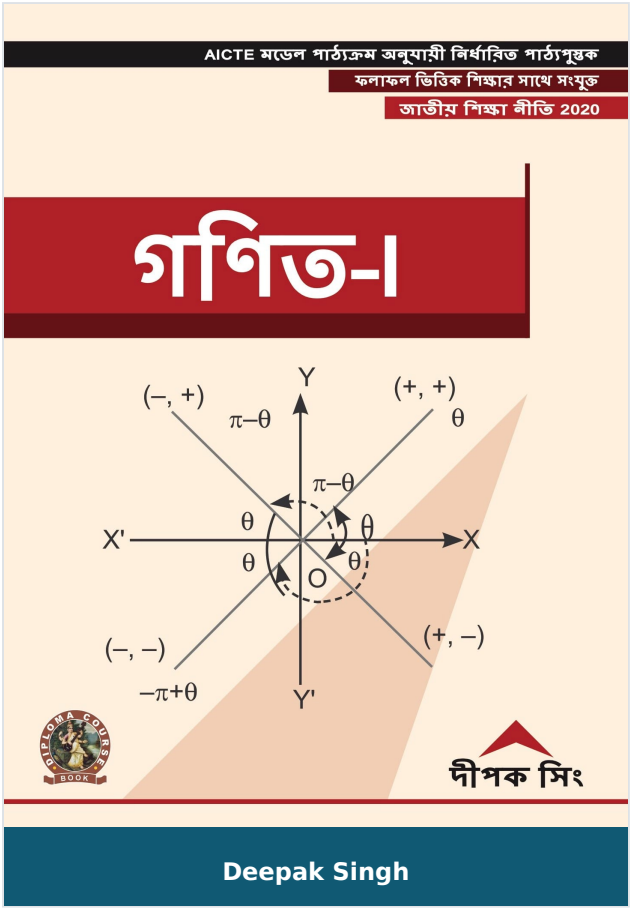

Mathematics I

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
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Product Description

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

Book cover five Units Trigonometry, Functions and Limit, Differential Calculus, Complex numbers and partial Fraction, Permutation and Combination and Binomial Theorem. In every unit each topic is written in easy and lucid manner. A set of exercise at the end of each unit is clubbed to test the student’s comprehension.

Some salient features of the book:

1. Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.

2. Book provides lots of real-world applications, interesting facts, QR Code for E-resources, mini projects, curiosity topics, sample specification table etc.

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

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

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

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

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Table Of Contents

- 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

Deepak Singh

Deepak Singh

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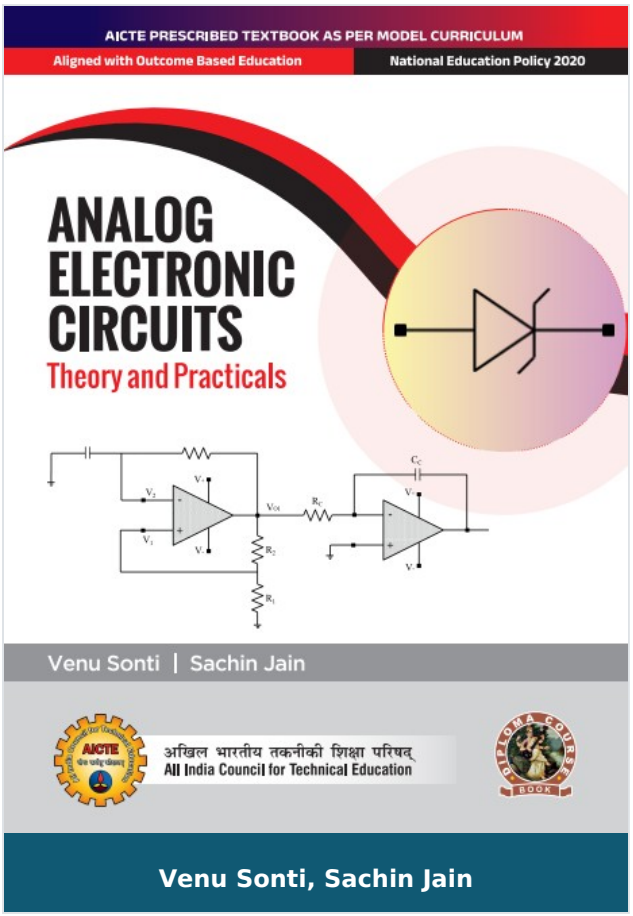

Analog Electronic Circuits: Theory and Practicals

Author :	Venu Sonti, Sachin Jain
ISBN 13 :	978-93-55382-13-9
ISBN 10 :	9355382138
E-ISBN 13 :	978-93-55382-13-9
Edition :	First
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Product Description

Analog Electronic Circuits: Theory and Practicals

Analog electronic serves as the foundational knowledge for understanding the behavior of electronic components, circuits, and systems. This book covers analysis of the analog circuit using basic Electrical circuit theorems. The book covers the required analysis for all the basic electronic devices typically employed in electronic circuits starting from a simple diode to complex op-amps devices. The book also presents the fundamental methods for solving analog circuits using simple circuits analysis techniques.

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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- Bipolar junction transistor
- MOSFET
- Powe amplifier and different amplifier
- Operational amplifier
- Linear applications of operational amplifiers
- Nonlinear applications of operational amplifiers
- Appendices
- Index

Author

Venu Sonti

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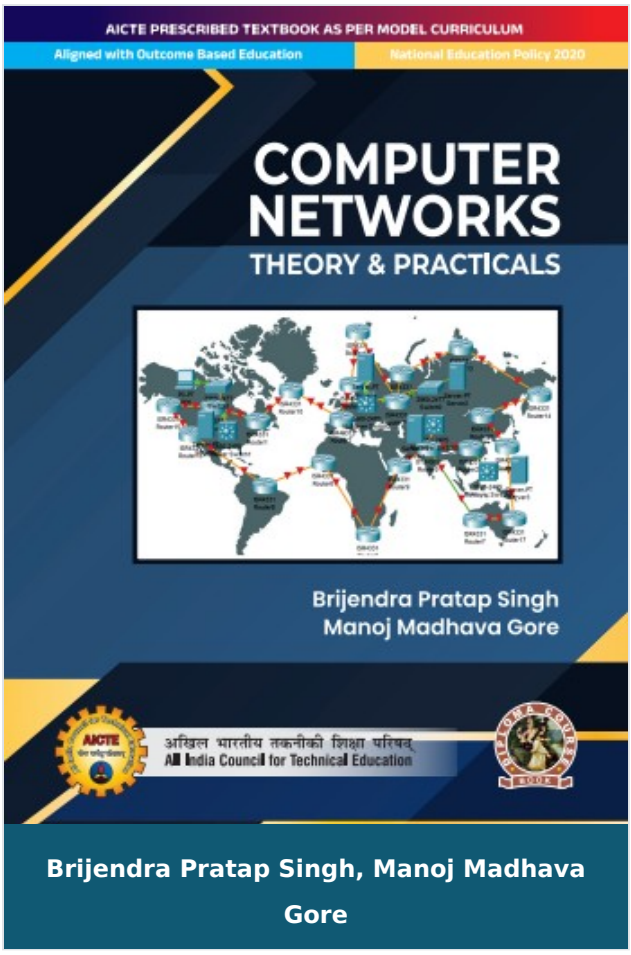
Sachin Jain

Dr. Sachin Jain Professor, Department of Electrical Engineering, National Institute of Technology, Raipur, Chhattisgarh.



Computer Networks: Theory & Practicals

Author :	Brijendra Pratap Singh, Manoj Madhava Gore
ISBN 13 :	978-93-55382-98-6
ISBN 10 :	9355382987
E-ISBN 13 :	978-93-55382-98-6
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Publisher :	Khanna Publishing House
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Product Description

Computer Networks: Theory & Practicals

The use of network applications and the internet is increasing every day. It is desirable that each user should have elementary knowledge about the working of network applications and the internet. Moreover, the professionals are supposed to have and understanding of network application development. Network architecture, network protocols, and network management. This book elaborates on the network architecture, transmission media, network topologies, ethernet, WI-FI, routing algorithms, routing protocols, IPv4 addresses, transmission control protocol, application layer protocols, simple network management protocol, and related topics. Moreover, the book takes alongside the laboratory tasks, such as the configuration of devices, creation of wired and wireless local area network and others.

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.

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- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- Solved and unsolved problems including numerical examples are solved with systematic steps

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- Index

Author

Brijendra Pratap Singh

Dr. Brijendra Pratap Singh Assistant Professor, School of Computer Science Engineering Technology, Bennett University, Greater Noida, India Dr.

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Environmental Science

Author :	Subrat Roy
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Product Description

“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.

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- CO and Po Attainment Table
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Author

Subrat Roy

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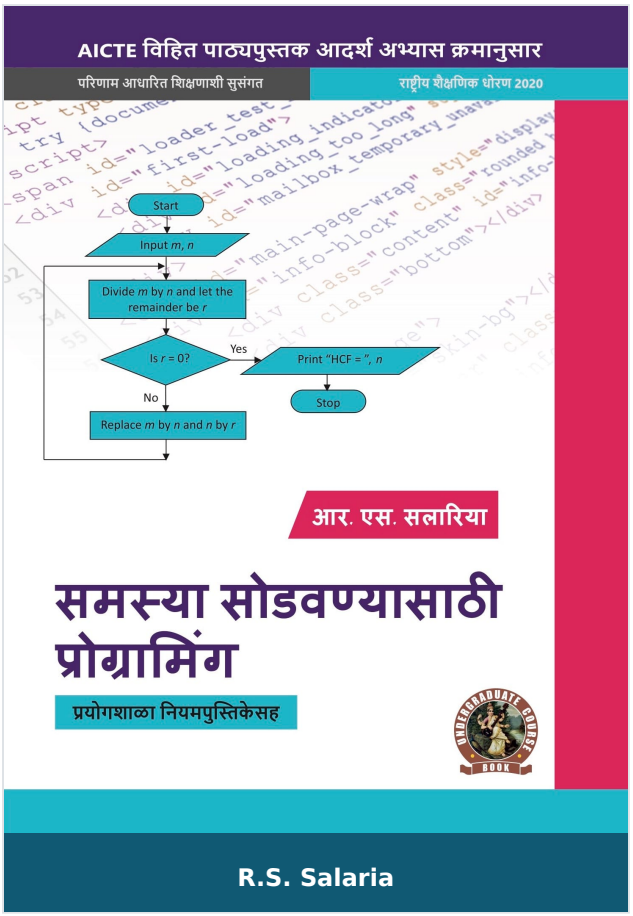

Programming for Problem Solving (with Lab Manual)

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
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Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 395.00
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Condition Type :	New
Country Origin :	India

Product Description

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).

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- to Programming
- Arithmetic
- Expressions and Precedence
- Conditional
- Branching and Loops
- Arrays
- Basic
- Algorithms
- Functions
- Recursion
- Structures

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Author

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

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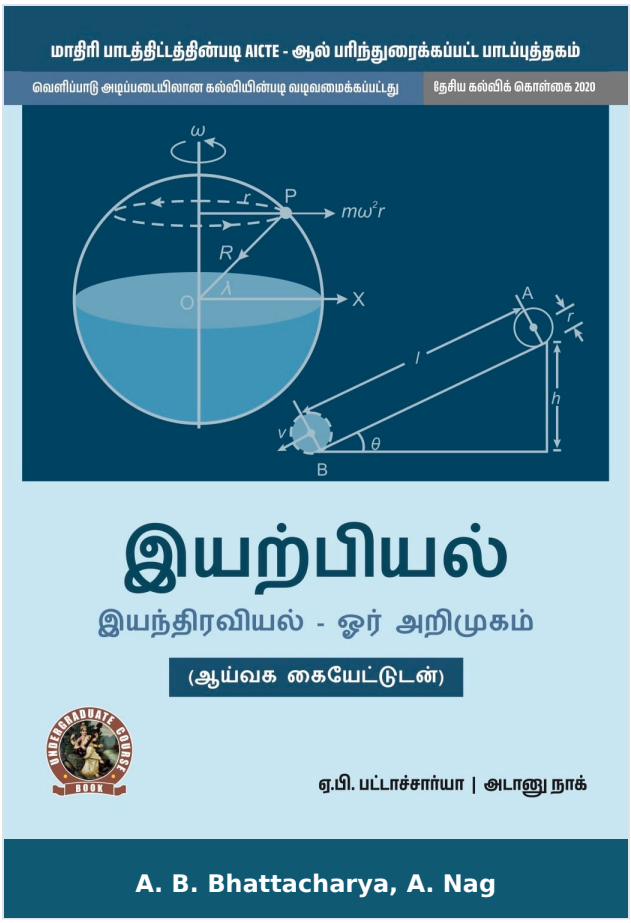

Physics (Introduction to Mechanics) (with Lab Manual)

Author :	A. B. Bhattacharya, A. Nag
ISBN 13 :	978-93-91505-76-9
ISBN 10 :	9391505767
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Publisher :	Khanna Publishing House
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Condition Type :	New
Country Origin :	India

Product Description

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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- Conservation Principles
- Dynamics of Particles
- Oscillations
- Rotational Motion
- Dynamics of a Right Body
- Table of Physical Constants
- Appendices
- Annexures
- References for Further learning
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Author

A. B. Bhattacharya

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

A. Nag

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

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Engineering Mechanics | AICTE Prescribed Textbook

Author :	B. B. Gokaldas
ISBN 13 :	978-93-55380-14-2
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Edition :	1
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Publisher :	Khanna Publishing House
M.R.P :	Rs 295.00
Categories :	AICTE Prescribed Textbooks, Kannada Books, Book Store, Ebooks
Condition Type :	New
Country Origin :	India

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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- Centroid and Centre of Gravity.
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Author

B. B. Gokaldas

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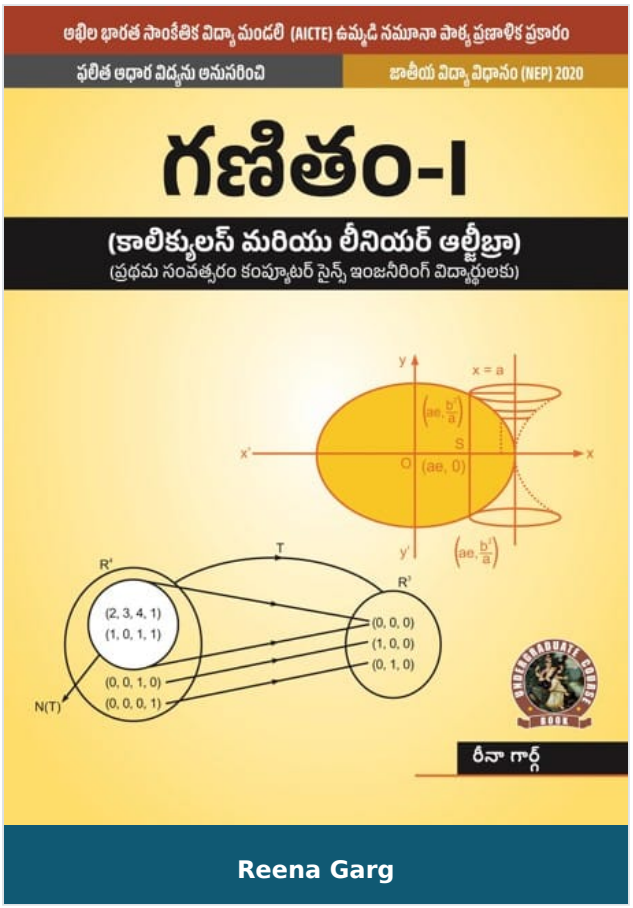

Mathematics-I (Calculus and Linear Algebra) for Computer Science Engineering Branches

Author :	Reena Garg
ISBN 13 :	978-93-91505-23-3
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Edition :	1
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Product Description

Calculus and linear algebra covers all the modules prescribed by AICTE model curriculum to all the 1st year CSE students studying in engineering institutions universities of the country. It serves as both text book and /or useful reference work. It contains 5 units which include calculus, algebra and vector spaces along with their applications. This renowned and well respected title provides in one handy volume with the essential mathematical tools that helps in understanding the subject and problem solving techniques with many real life engineering applications. As per trademark of AICTE, this book is in student friendly style, author has endeavored enormous efforts in providing numerous solved examples and exercise under each topic to facilitate better understanding of the concepts to the students. Majority of questions in this book have been designed to access the reader's understanding of the subject. Professional of those who are preparing of competitive examinations will also find this book very useful. This book give the students a complete grasp of the mathematical skills that are needed by engineers all over the country.

Some Salient Features of the Book:

1. In depth coverage of all related, essential and mentioned topics as per AICTE in simple presentation with clarity and accuracy.

2. Emphasis on the applications of concepts and theorems.

3. Core concepts are presented through a large number of solved graded model examples in an innovative and lucid manner.

4. A good number of relatively competitive problems are given at the end of each unit in the form of short questions, HOTS, assignments, MCQs and know more for student’s practices purpose. Practical /Projects/ Activity also given in each unit for enhancing the student’s capability, to increase the feeling of team work

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5. To clarify the subject, the text has been supplemented through Notes, Observations and Remarks; an attempt has been made to explain the topic through maximum use of geometries wherever possible.

6. Some standard problems with sufficient hints have been included in each exercise to gauge the student’s visual understanding and for grasp the theory.

7. Video links, interesting facts, uses of ICT also included after each topic in every unit for easy understanding of the readers. Also included the pictorial representations of many topics for fast and permanent grasping of the content.

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Author

Reena Garg

Dr. Reena Garg , M.Sc. Mathematics (Gold Medalist), M.Phil, Ph.D is Assistant Professor (Mathematics) in YMCA University of Science & Technology, Faridabad (Haryana). She also taught in C.I.T.M. Faridabad (presently known as Manav Rachna International University, Faridabad). Her teaching experience of more than a decade has made this

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book more valuable for the knowledge seekers.She has published more than 10 research papers in various InternationalJournals. She is a life-time member of Forum of Inter-disciplinary mathematics in India. She is a member of reviewer Board in IJRET, Bangalore.

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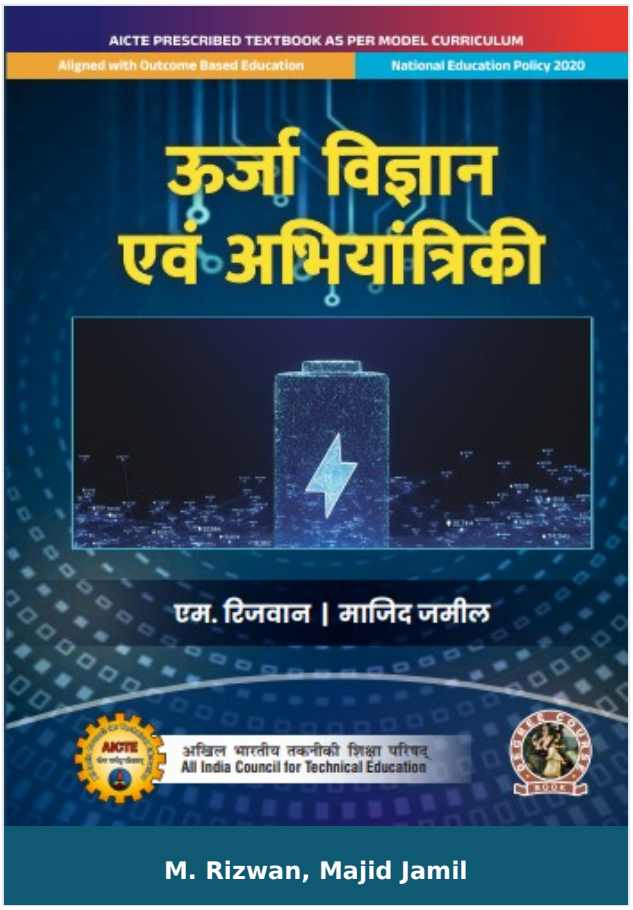

Energy Science and Engineering

Author :	M. Rizwan, Majid Jamil
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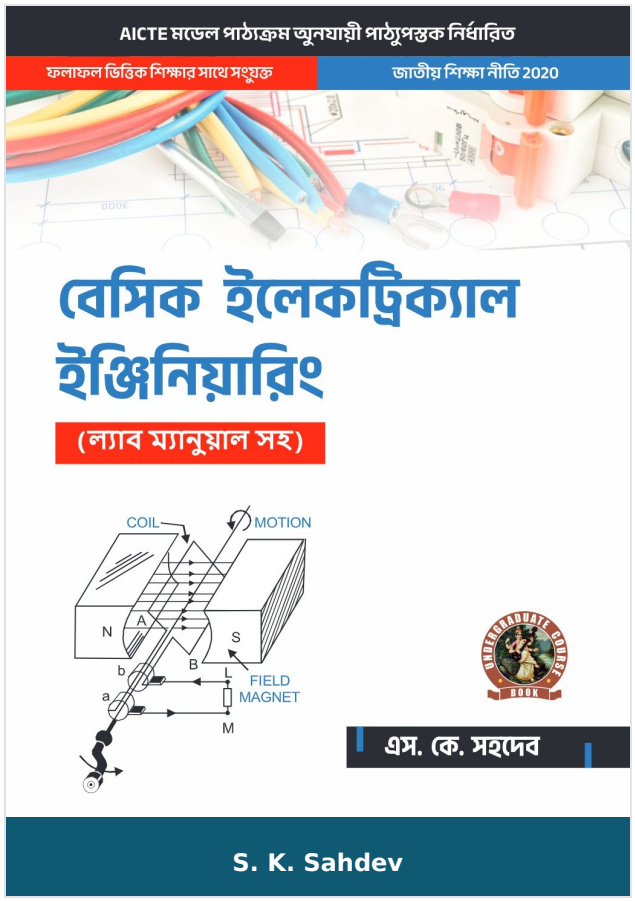

Basic Electrical Engineering (with Lab Manual)

Author :	S. K. Sahdev
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ISBN 10 :	9355381093
E-ISBN 13 :	978-93-55381-09-5
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Pages :	416
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Publisher :	Khanna Publishing House
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Condition Type :	New
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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.

Salient Features:

1. DC Circuits
2. AC Circuits
3. Transformers
4. Electrical Machines
5. Power Converters
6. Electrical Installations

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

Author

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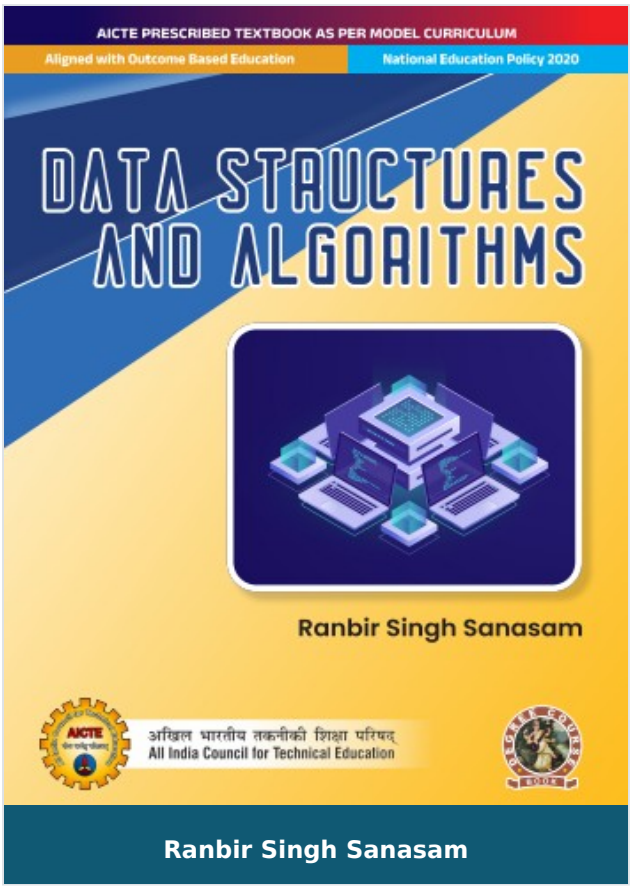

Data Structure and Algorithms

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Product Description

Data Structure and Algorithms

This book has been written considering the specific topics recommended by AICTE, in a very systematic and orderly manner. The fundamental concept of each topic recommended in the curriculum has been explained in an easy-to-understand manner with appropriate illustrative pictorial examples, algorithms, and program segments. The examples provide insights to the subject matter aligned with latest model curriculum of the AICTE, followed by the concept of outcome-based education as per the New Education Policy (NEP)-2020. At the end of each unit, a set of exercise problems is given for self-practice. A dedicated web site is also created for this book, where additional reading materials, source codes of various practice problems, additional exercise problems, and other resources are provided. The site can be accessed through the following URL: https://www.iitg.ac.in/ranbir/books/ DSA/index.html. This site will be updated regularly, and readers are encouraged visit the site for additional updates.

Salient Features:

- The content of the book is aligned with the mapping of Course Outcomes, Program Outcomes, and Unit Outcomes.
- In the beginning of each Unit, learning outcomes are listed to make the readers understand what is expected outcome after reading the unit.
- At the end of each Unit, a QR code is provided for exploring additional E-resources.
- Pictorial explanations, algorithms, work out examples are provided for ease of understanding of the topics.
- Objective questions, short questions, practice questions are provided for practice.

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- Abbreviations and Symbols
- List of Figures
- Introduction
- Array, Stack, and Queue
- Linked List and Trees
- Sorting, Hash and Graph
- CO and PO Attainment Table
- Index

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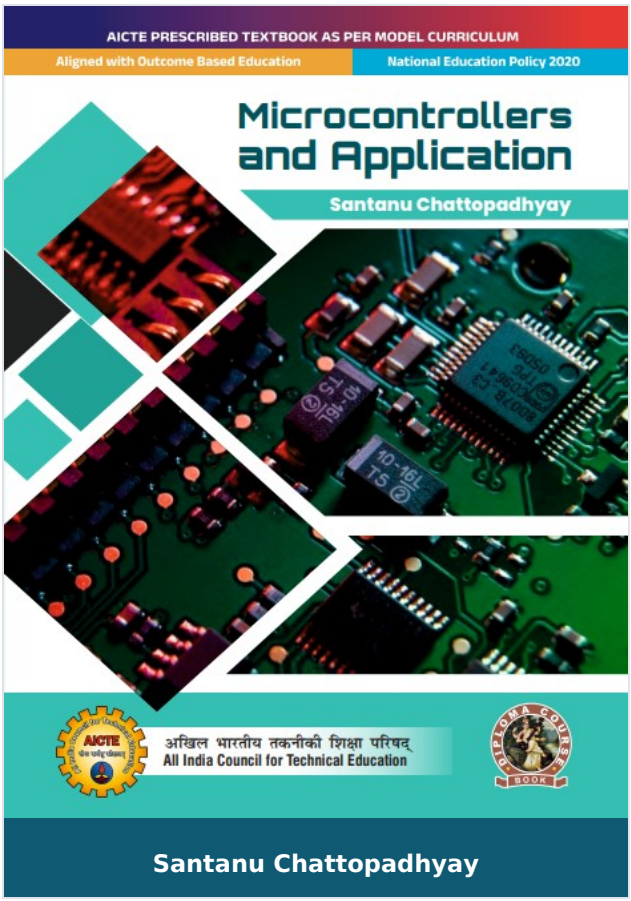

Microcontrollers and Applications

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Product Description

Microcontrollers and Applications

This book contains topics of Microcontrollers and Applications for the fourth semester students of diploma course strictly as per syllabus and model curriculum of AICTE and aligned with the theme of outcomes-based education according to National Education Policy 2020. This book comprises of fives units covering topics on fundamentals of microprocessors and microcontroller, The 8051 Architecture, instruction set and programming, I/O Interfacing and introduction to advanced Processors and Concepts.

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 matter.
- Figures, tables, inserted to improve clarity of topics.
- A ‘know more’ section in each unit to extends the learning beyond syllabus.
- MCQs, short-answer type, long-answer type, numerical q\and practical questions added for the units to help in self-checking of Knowledge.
- Answers have been provided for the MCQs and numerical questions. Hints have been given for solving the practical problems.

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- Instruction set and programming
- I/O interfacing
- Introduction to advanced processors and concepts
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