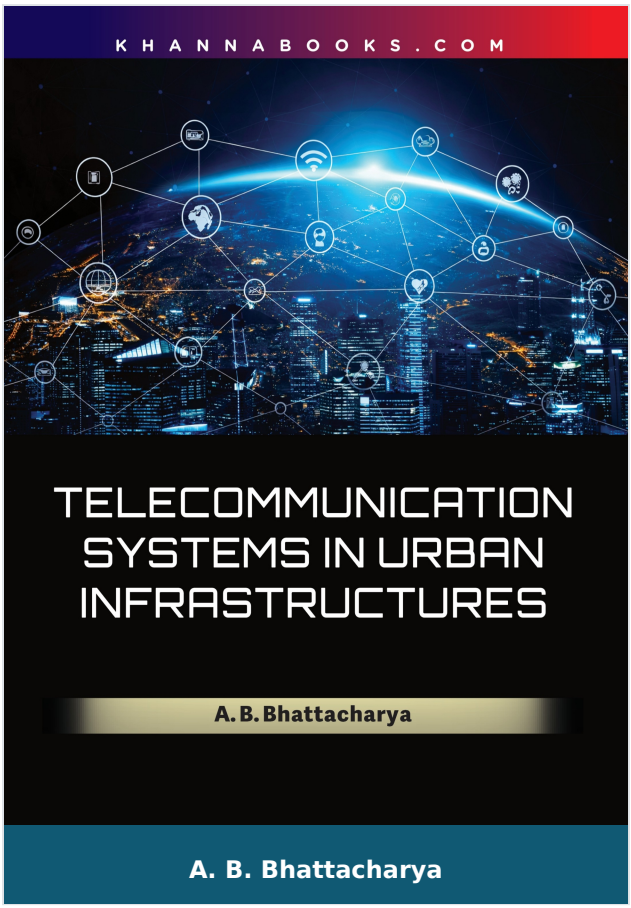


Telecommunication Systems In Urban Infrastructures

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Product Description

Telecommunication Systems In Urban Infrastructures

Modern cities run on connectivity. From smart transport and energy grids to IoT-enabled homes and resilient emergency networks, telecommunication on systems form invisible backbone of urban life. Telecommunication systems in Urban Infrastructure delivers a comprehensive, practical, and future-focused exploration of how communication technologies design, support, and transform smart cities.

This book bridges theory and real-world application, guiding students, engineers, planners, and policymakers through the full ecosystem of urban telecommunication – from foundational signal principles to emerging 6G, AI- driven networks, and cyber-resilient infrastructure.

Readers will explore:

- Core principles of wired and wireless telecommunication systems
- Smart city connectivity for transport, utilities, building, and public spaces
- IoT integration, cyber security, and urban data privacy
- Planning, deployment, and economic challenges in dense urban environments
- Cutting-edge technologies including AI optimization, edge/cloud computing, and quantum communication
- Global smart city case studies and future sustainability trends

Each chapter is carefully structured with:

- Concept explanations grounded in real urban scenarios
- Numerical problems and technical exercises
- Short questions and multiple-choice assessments
- Projects ideas with guided solution

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- Practical insights into standards, regulations, and infrastructure planning

With coverage spanning telecom fundamentals, smart utilities, mobility systems, urban IoT, security frameworks, and next-generation networks, this book provides a complete roadmap for designing and managing connected cities. Whether you are4 preparing for academic study, professional deployment, or research in smart infrastructure, this text equips you with the technical depth, analytical tools, and systems perspective required building the cities of tomorrow.

Build smarter networks. Design resilient cities. Shape the connected future.

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- Cyber Security and Data Privacy in Urban Telecom Systems
- Planning and Deployment of Telecom Infrastructure in Cities
- Emerging Technologies In Urban Telecommunications
- Case Studies of Telecommunication in Smart Cities
- Future Trends and Challenges
- Visual Architectures and System Diagrams In Urban Telecommunication Infrastructure
- Appendix

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

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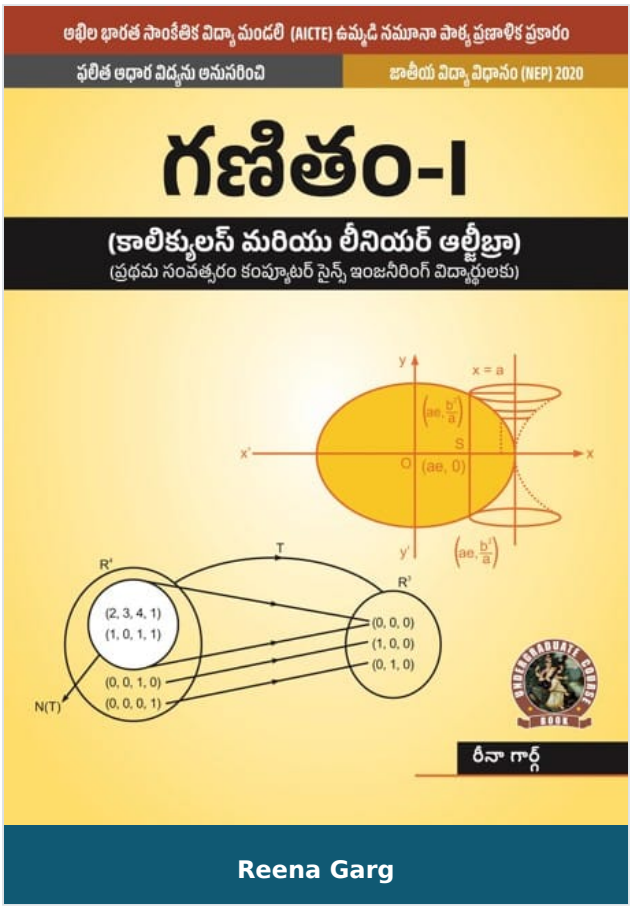
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division of MIT and many other well recognized laboratories in India and abroad. He served as Professor & Head of the Department of Physics, University of Kalyani; Dean of Research and Head of the ECE Department, Techno India University; Pro Vice Chancellor 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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Mathematics-I (Calculus and Linear Algebra) for Computer Science Engineering Branches

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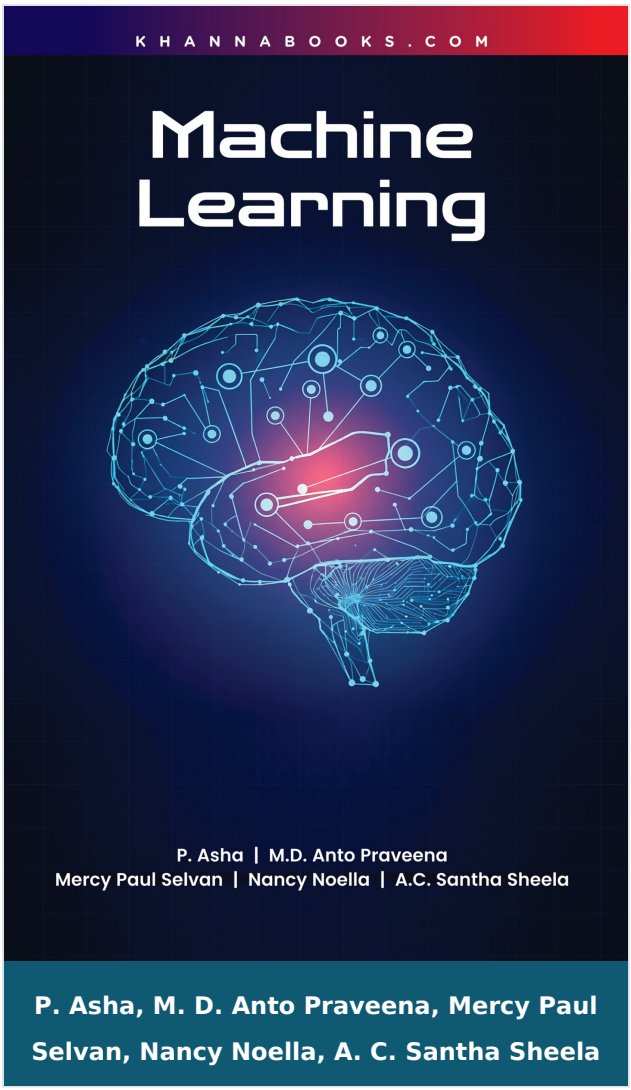
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book more valuable for the knowledge seekers.She has published more than 10 research papers in various InternationalJournals. She is a life-time member of Forum of Inter-disciplinary mathematics in India. She is a member of reviewer Board in IJRET,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

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P. Asha, M. D. Anto Praveena, Mercy Paul Selvan, Nancy Noella, A. C. Santha Sheela

Machine Learning

Author :	P. Asha, M. D. Anto Praveena, Mercy Paul Selvan, Nancy Noella, A. C. Santha Sheela
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Product Description

MACHINE LEARNING: A Theoretical and Practical Guide is an essential introductory textbook meticulously designed to equip students and researchers with a robust theoretical foundation and critical practical insights into the rapidly evolving field of data analytics. Addressing the core principles of machine learning (ML), the book systematically explores the diverse ML types—Supervised, Unsupervised, Semi-Supervised, and Reinforcement Learning—while meticulously detailing their mathematical underpinnings and theoretical frameworks.

The book begins with an exploration of fundamental learning concepts, including the Bias-Variance Tradeoff and VC Dimension, before delving into core algorithms. It provides comprehensive coverage of key techniques for real-world problem-solving, such as Association Analysis for recommendation systems, and foundational Classification algorithms like Decision Trees and Naïve Bayesian Classifiers. Complex topics are simplified through a thorough analysis of parametric estimation, multivariate techniques, and crucial dimensionality reduction methods like PCA and LDA. Furthermore, the text offers practical solutions for Clustering and Outlier Detection, which are vital for achieving effective generalization. A dedicated section introduces Neural Networks, from single-layer perceptrons to Multi-layer Perceptrons and Backpropagation, culminating in a discussion of advanced local models and ensemble techniques like Bagging and Boosting. Finally, the book highlights emerging research in Reinforcement Learning, positioning it as a valuable resource for tackling complex engineering and open research challenges. This volume serves as an invaluable roadmap for aspiring data scientists and established academics seeking to master modern ML principles.

Salient Features:

• Foundational Learning Paradigms: Details the four main types of learning: Supervised, Unsupervised, Semi-Supervised, and Reinforcement Learning, providing context for

various algorithms.

• Core Algorithms Analyzed: Provides in-depth coverage of crucial models such as Decision Trees, Naïve Bayes Classifiers, K-Means clustering, and Linear Regression.

• Mathematical Underpinnings: Explains the theoretical frameworks of ML, including Bayesian Decision Theory, PAC Learning, and the Bias-Variance Tradeoff in model building.

• Data Reduction Techniques: Features practical chapters on essential dimensionality reduction methods like Principal Component Analysis (PCA) and Linear Discriminant Analysis (LDA) for data preprocessing.

• Neural Network Deep Dive: Introduces the architecture and training of neural networks, covering perceptrons, Multi-Layer Perceptrons, and the Backpropagation algorithm.

• Advanced Local Models: Includes detailed explanations of competitive learning, Self-Organizing Maps (SOM), and Radial Basis Function (RBF) networks for advanced data grouping.

• Model Optimization Strategies: Explores ensemble methods, specifically Bagging and Boosting (including AdaBoost and Gradient Boosting), for improving model accuracy and stability.

• Future Learning Paradigms: Highlights emerging research in Reinforcement Learning, explaining its workflow, terminologies, and key models like Markov Decision Processes (MDPs) and Q-Learning.

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- Decision Theory
- Clustering and Regression
- Multilayer Perceptions
- Local Models

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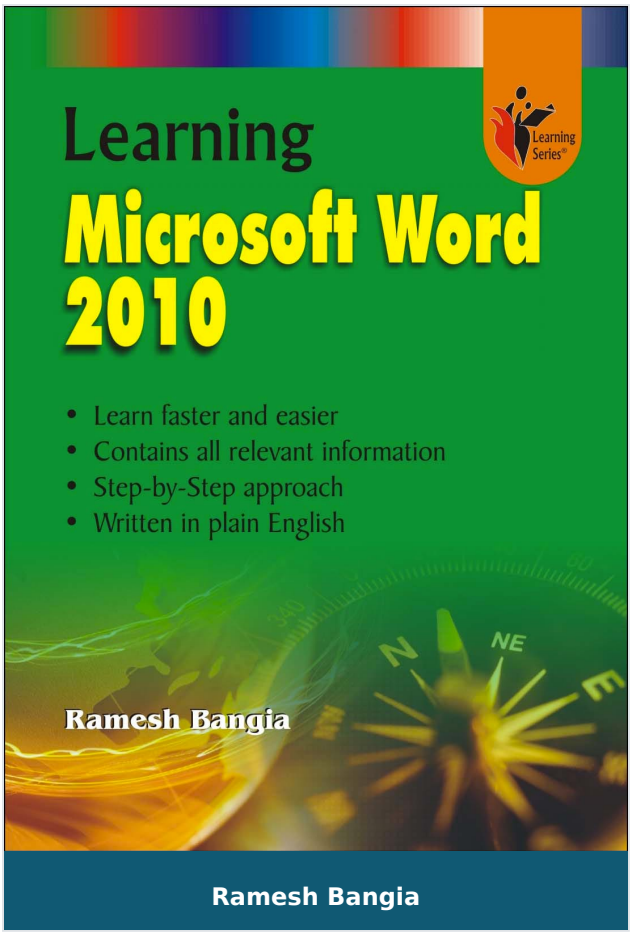
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Learning Microsoft Word 2010

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Product Description

The complete Learning Series has been designed in a very systematic and logical manner. Each topic has been developed from the basic concepts. Practically every major point in the text is illustrated with suitable examples and screen shots. This will help the students in understanding the basic theory and train them in solving every problem systematically, and confidently. A large number of unsolved as well as solved exercises have also been included in the book. Microsoft word 2010 is a word processing program used for creating letter, e-mail, office memos, brochures, fax messages, etc. This book explains the working of the software in details especially in the case of mail Merge, Table of contents, header and footer, page breaks, etc. each command of the various panels are explained in details. The language of the text of the book is lucid, direct and easy-to understand. Each chapter is laced with various diagrams wherever possible. Mail merge has been explained with a live example. Tips for working faster using the keyboard shortcuts are also provided.

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- Questions

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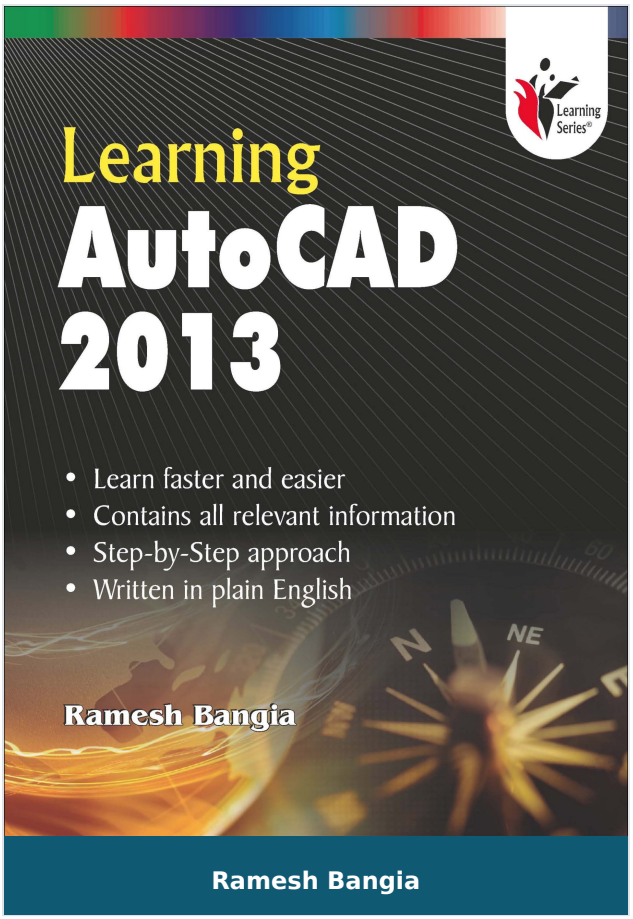
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Ramesh Bangia, has been writing computer books on various topics. He has written books for Schools. Training Institutes, Technical Universities, Distance Education Programs, Colleges and General. His tally of books exceeds 500 in number. Trained both in India and Abroad and having studied at IIT Delhi, he becomes automatic choice for most of the publishers in India. Though based in Delhi, his books are popular all over India and are even exported to Middle Ease and African countries.

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Learning AutoCAD 2013

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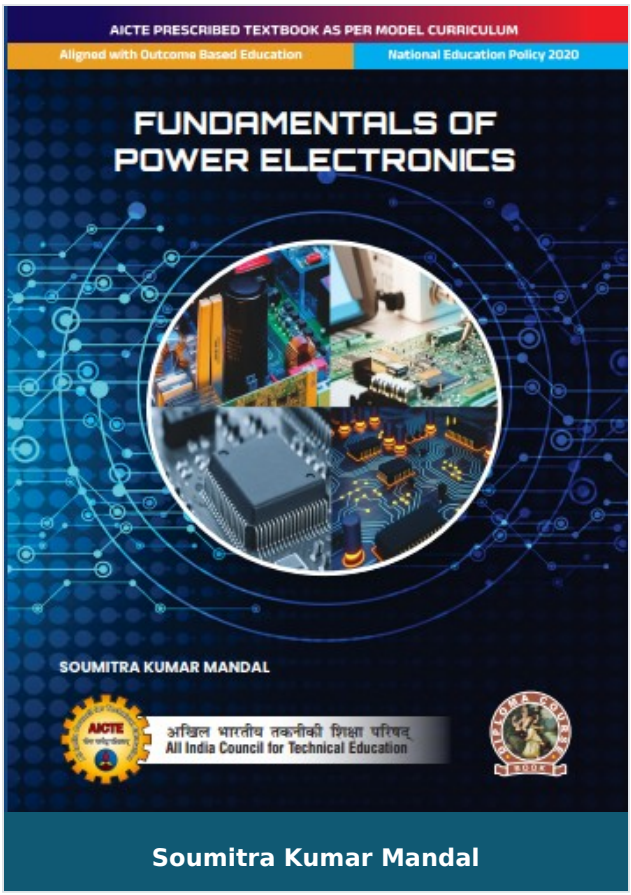
Ramesh Bangia

Ramesh Bangia, has been writing computer books on various topics. He has written books for Schools. Training Institutes, Technical Universities, Distance Education Programs, Colleges and General. His tally of books exceeds 500 in number. Trained both in India and Abroad and having studied at IIT Delhi, he becomes automatic choice for most of the publishers in India. Though based in Delhi, his books are popular all over India and are even exported to Middle Ease and African countries.

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Fundamentals of Power Electronics

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Product Description

Fundamentals of Power Electronics

The Fundamentals of Power Electronics are well established and nowadays all power electronics devices are used in control of ac and Household applications. It is essential for ECE, Industrial Electronics, EEE and Electrical diploma holders. This book is basic for new learners. This book introduces the concept of power electronics, construction, working principle, V-1 characteristics of power semiconductor devices such as power BJT, Power MOSFET, IGBT, Thyristor, SCR, LASCR, SCS, GTO, UJT, PUT, DIAC and TRIAC, SET and Nano-technology, turn-on and turn-off methods of thyristors, different triggering circuits, commutation

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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Author

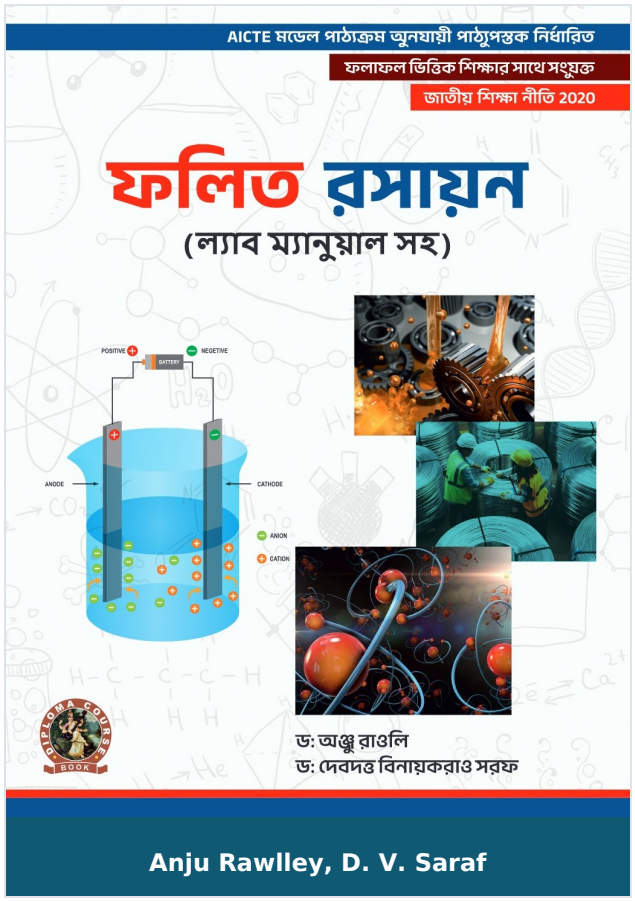
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Applied Chemistry (with Lab Manual)

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Product Description

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 program 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.

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

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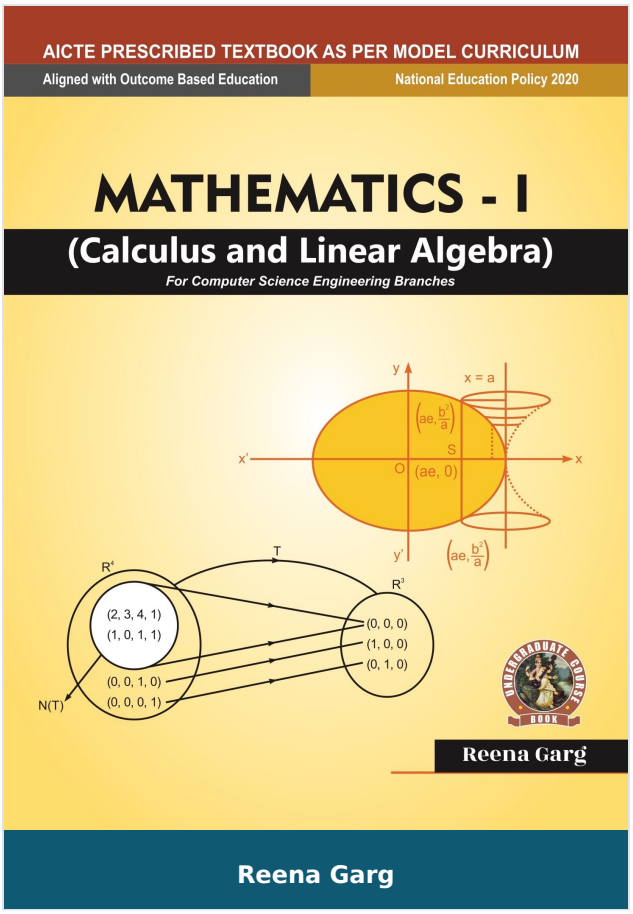
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Mathematics-I (Calculus and Linear Algebra) For Computer Science Engineering Branches

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Product Description

Calculus and Linear Algebra cover all the modules prescribed by AICTE model curriculum to all the 1st year CSE students studying in engineering institutions and universities of the country. It serves as both text book /or useful reference work. It contains 5 units which included 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 help in understanding the subject and problem solving techniques with many real life engineering applications. As per trademark of AICTE. This book is in student's 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 professionals or those who are preparing for competitive examinations will also find this book very useful. This book will 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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- CO and Po Attainment Table.

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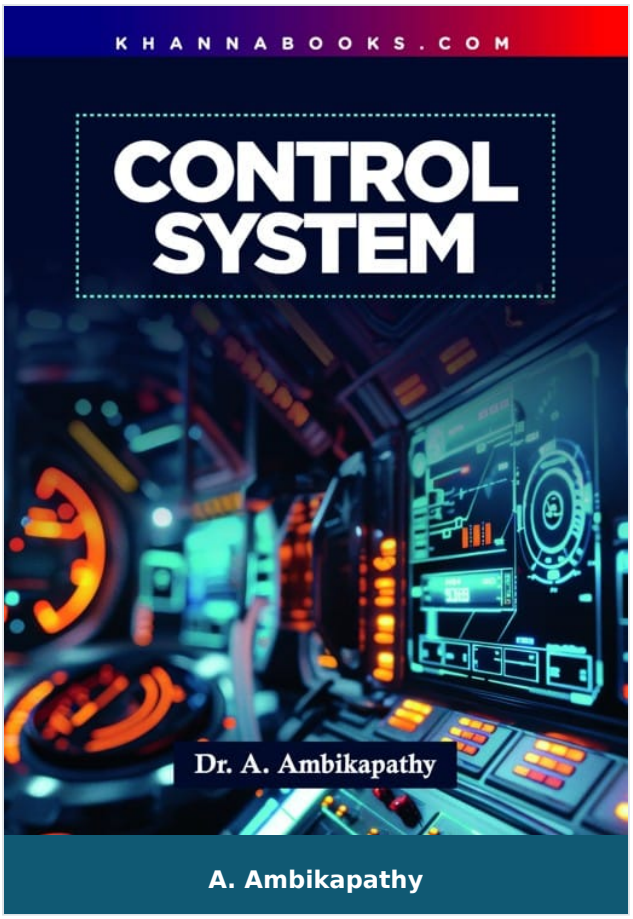
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book more valuable for the knowledge seekers.She has published more than 10 research papers in various InternationalJournals. She is a life-time member of Forum of Inter-disciplinary mathematics in India. She is a member of reviewer Board in IJRET,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

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Control System

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Product Description

The textbook on Control System tells about the basic concepts of control system in a detailed manner. This book contains the brief explanation about block diagram reduction, signal flow graph and time domain analysis. The techniques which are used in control system such as root locus, bode plot and polar plots are explained in detail. designing procedures for the compensators (Lag, lead and lag lead) are given in easy manner and steady state space analysis also explained in a simple manner. The effort has been taken to explain all the concepts in a simple language to make the students to understand the concepts very easily.

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- Time Domain Analysis
- Concept of Stability
- Correlation
- Compensators Design

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