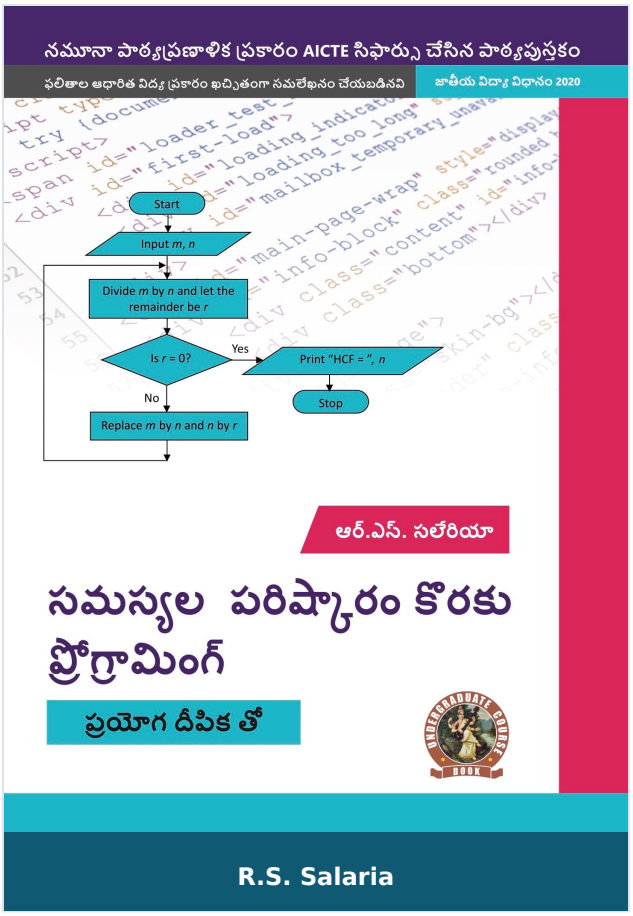

Programming for Problem Solving (with Lab Manual)

Author :	R.S. Salaria
ISBN 13 :	978-93-91505-56-1
ISBN 10 :	9391505562
E-ISBN 13 :	978-93-91505-56-1
Edition :	First
Pages :	380
Type of book :	Physical
Year :	2022
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 295.00
Categories :	AICTE Prescribed Textbooks, Telugu Books, Book Store, Ebooks
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.

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Table Of Contents

- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Programme Outcome (POs)
- Course Outcomes
- Abbreviations and Symbols
- List of Figures
- List of Tables
- Guidelines for Teacher
- Guidelines for Students
- Introduction to Programming
- Arithmetic Expressions and Precedence
- Conditional Branching and Loops
- Arrays
- Basic Algorithms
- Functions
- Recursion
- Structures
- Pointers
- File Handling
- References for further learning
- Co and PO attainment Table

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- Index

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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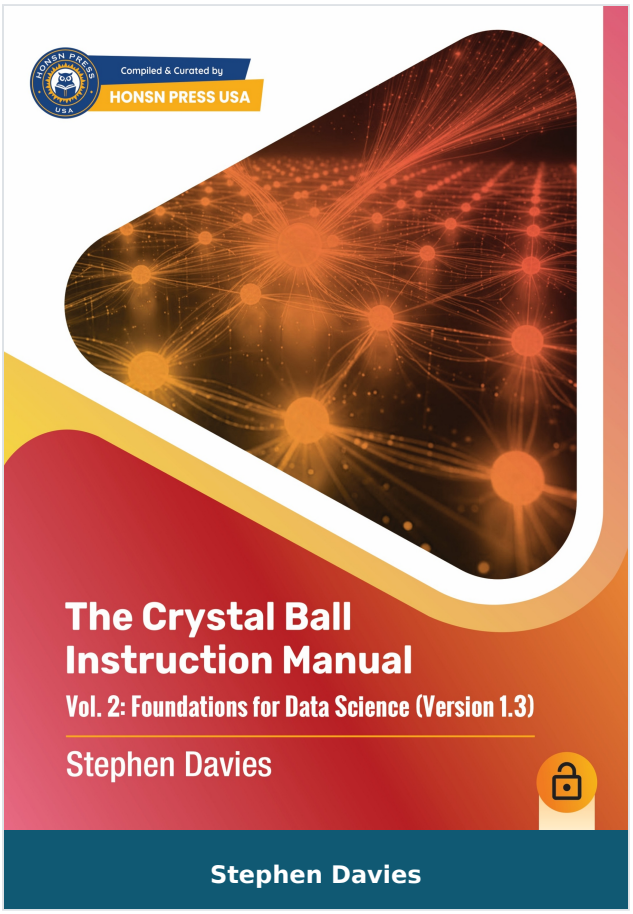

The Crystal Ball Instruction Manual (Vol.2: Foundations for Data Science, Verson 1.3) (HONSN PRESS USA)

Author :	Stephen Davies
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Product Description

The Crystal Ball Instruction Manual, Volume Two: Foundations for Data Science, is the essential next step for learners ready to move beyond introductory concepts and establish mastery in the field. Designed for intermediate students, aspiring professionals, and researchers who have a working knowledge of foundational Python programming, this volume solidifies the core knowledge and practical skills necessary to build a robust data science skill set. It assumes a base level of competency, offering a swift review of essential concepts like statistical significance, exploratory data analysis (EDA) fundamentals, and classification/regression principles.

The book's core theme is hands-on implementation, leveraging the Python ecosystem—including the Spyder IDE, NumPy, and Pandas—to tackle real-world data challenges. Its practical value is delivered through in-depth coverage of crucial data acquisition and wrangling techniques, such as parsing complex JSON and HTML using screen scraping, accessing databases, and data fusion to integrate multiple sources. It extends EDA with advanced visualization methods like heat maps and box plots, while simultaneously providing a solid grounding in machine learning principles like Naïve Bayes and kNN classification, along with essential pre-modeling steps like feature selection and association analysis.

Salient Features

• Foundational Data Principles: Reviews and solidifies core concepts like statistical significance, the crucial distinction between association and causality, and fundamental machine learning terminology.

• Advanced Data Exploration: Extends Exploratory Data Analysis (EDA) skills with detailed instruction on Kernel Density Estimates (KDEs), various distribution plots, and bivariate categorical analysis.

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• Real-World Data Acquisition: Provides practical techniques for collecting and structuring disparate data, including parsing complex JSON files, performing screen scraping (HTML), and directly accessing databases (SQLite).

• Effective Data Wrangling: Focuses on combining and restructuring data using techniques like data fusion, merging tables, and transforming datasets between long, wide, and the modern "tidy" form.

• Practical ML Algorithms: Delivers hands-on instruction for fundamental classification algorithms, including thorough multipart coverage of the Naïve Bayes classifier and the k-Nearest Neighbors (kNN) method.

• Statistical Modeling Insights: Covers probabilistic reasoning, the concepts of the prior and posterior, and the practical application of the LOWESS non-parametric local regression smoothing algorithm.

• Essential Pre-Modeling Techniques: Dedicated chapters explore critical preparatory steps such as feature selection to improve model performance and association analysis (like market basket analysis).

• Integrated Python Environment: Instructions are explicitly integrated with the Spyder IDE within the Anaconda distribution, ensuring seamless, hands-on application using industry-standard Python libraries.

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Table Of Contents

- Intermission and review
- Navigating the Spyder's web
- EDA: review and extensions
- KDEs and distributions
- Random value generation
- Synthetic data sets
- JSON (1 of 2)
- JSON (2 of 2)
- Lowess
- Data Fusion
- Long, wide, and "tidy" data
- Dates and Times
- Using Logarithms
- Accessing databases
- Screen Scraping (1 of2)
- Screen Scraping (2 of2)
- Probabilistic Reasoning
- Causality
- Naive Bayes (1 of 3)
- Naive Bayes (2 of 3)
- Naive Bayes (3 of 3)
- APIs
- kNN (1 of 2)

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- kNN (2 of 2)
- Two key ML Principles
- Feature Selection
- Association Analysis
- "Special" Data types

Author

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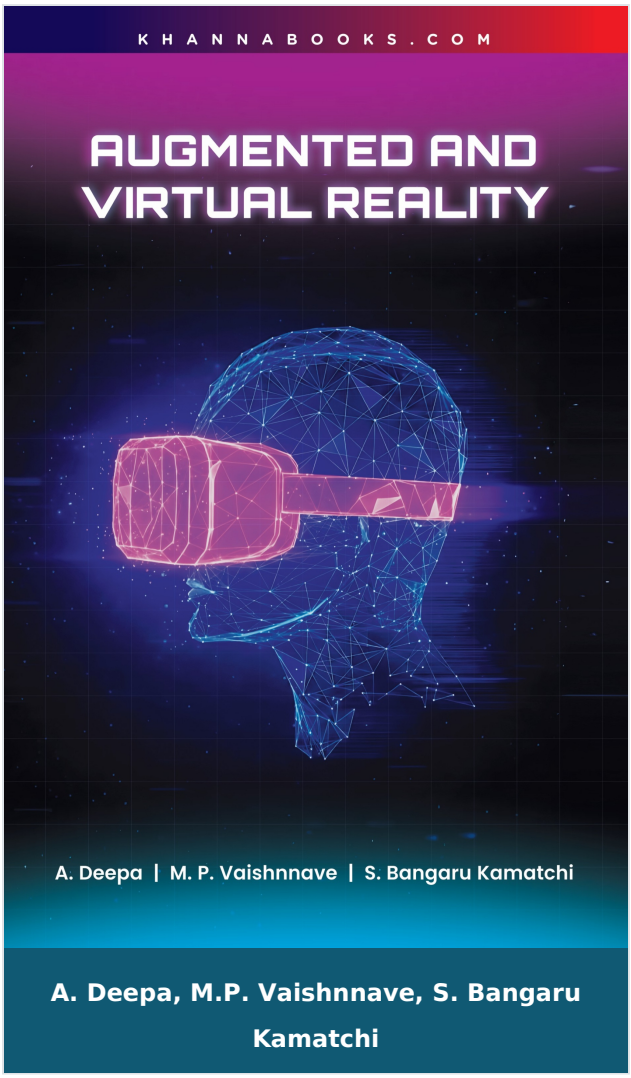

Augmented and Virtual Reality

Author :	A. Deepa, M.P. Vaishnnave, S. Bangaru Kamatchi
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Product Description

This book serves as a comprehensive guide to mastering the rapidly evolving world of Augmented Reality (AR) and Virtual Reality (VR), technologies that are fundamentally reshaping human-computer interaction. Designed to bridge the gap between theoretical knowledge and practical implementation, the core purpose of this text is to equip readers with the foundational concepts and hands-on expertise necessary to design, develop, and deploy functional AR/VR applications.

The journey begins with an exploration of the historical evolution, scope, and key distinctions of AR/VR, including the critical concepts of Immersion vs. Presence. It quickly progresses to essential design principles, focusing heavily on User Experience (UX), graphical metaphors, and prototyping within immersive environments. The practical value of this book is demonstrated through detailed instructional units on Unity, the industry-leading development platform, and its integration with the powerful AR toolset, Vuforia. Readers will gain proficiency in scripting, handling Unity Physics (Colliders and Rigidbodies), and creating interactive 3D experiences, culminating in a case study on real-time application development.

This resource is ideally intended for students, developers, designers, and enthusiasts seeking a strong, structured foothold in the AR/VR domain. It is an essential tool for those looking to harness these transformative technologies for applications across gaming, healthcare, education, and manufacturing.

Salient Features:

• Foundational Concepts: Covers the historical evolution, definitions, and scope of AR/VR, including multimodal displays and the key differentiation between Strong vs. Weak AR and Immersion vs. Presence.

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• Interaction Design: Dedicated focus on User Experience (UX) guidelines, perception, and cognition. It details how to design for user needs, apply Affordances, and perform prototype evaluation in AR/VR environments.

• Unity Development: Provides a comprehensive overview of the Unity platform, covering its interface, navigation, asset management, hierarchy, and fundamental scripting concepts using MonoBehaviours.

• Vuforia and AR: Explores the Vuforia development engine, detailing its features, setup process, and practical use for implementing Image Targeting and custom image recognition in AR applications.

• Scripting and Physics: Offers in-depth coverage of introductory and advanced scripting, focusing on manipulating components and programming interactions. It also introduces essential concepts of Unity Physics.

• Advanced Interactivity: Explains crucial implementation details like creating Trigger Events, using Colliders and Rigidbodies, and navigating world space for both objects and the user in the virtual environment.

• Real-World Applications: A final unit presents a Case Study on building a complete, real-time application using AR and VR, with applications demonstrated across fields like Education, Healthcare, and Retail.

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Table Of Contents

- Introduction to Augmented Reality and Virtual Reality
- Interaction for AR/VR Environments Design
- Introduction to Unity
- Introduction to Vuforia and Physics in Unity
- Expanding on Scripting and Interactions
- Sample Question Paper

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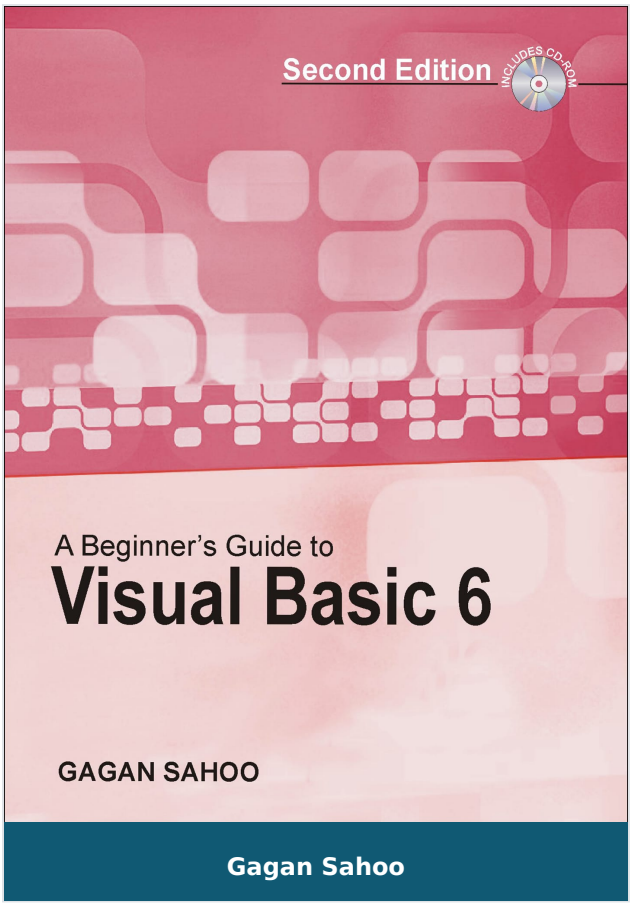

A Beginner's Guide to Visual Basic 6

Author :	Gagan Sahoo
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Product Description

This well-organized and comprehensive book offers a detailed coverage on visual basic programming concept. It contains a rich collection of examples, exercises and project based concepts. This book concentrates on the principles of good software engineering and stress program clarity. Without assuming any background knowledge of programming, this book teaches VB language using carefully graded approach. The book covers easy-to understand steps, from simple programs to sophisticated ones that demonstrate VB's power for programming development. Using this book you can create different application starting from Desktop application; Database handling to internet based programming. The book contains 100's of source codes in different chapters in CD.

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Table Of Contents

- Introduction
- Integrated Development Environment in VB
- Variables Constants and Data Types
- Starting with VB Programming
- Control Statements
- Procedures and Functions
- Arrays
- Standard Library Functions
- Typing Cast and Conversion Functions
- Mathematical and Financial Functions
- Fundamentals of Drawing Events
- GUI Control Concepts
- Advanced GUI Control Concepts
- Working with the Mouse
- Keyboard Events
- Debugging and Error Handling
- Working with FSO and Sequential File Processing
- Random-Access File Processing
- Object Oriented Programming
- Working with ActiveX Controls
- Database Management System
- Internet and World Wide Web Classes
- Multimedia Animation and Audio Controls

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Author

Gagan Sahoo

Gagan Sahoo This well -organized and comprehensive book offers a detailed coverage on Visual Basic Programming concept. It contains a rich collection of examples, exercises and project based concepts. This book concentrates on the principles of good software engineering and stresses program clarity. without assuming and background knowlwdge of programming, this book teaches VB language using carefully graded approach. The book covers easy-to understand steps, from simple programs to sophisticated ones that demonstrate VBs power for programming development. Using this book you can create different application statring from desktop application; database Handling to Internet based programming. The book contains 100's source codes in different chapters in CD. He has more that 15 Years of experience in the computer field working as a software developer, director of software development. He is a well-known author of various computer books including, VB, C++, Java. Since last 10 years, he has lots of experience in different computer project works. He has written number of project books including Foxpro, C, C++, Vb, etc. He associates Mr. Arvind Kumar working as co-author in various technical projects in .NET technology. He has been Programming in various .NET project and tested so many code on Microsoft's .NET environment. His prime development of Beginner's Guide to VB, C# 2005 (with.NET 3.0), ASP.NET, VB.NET, etc. Which was written to fullfil the need and development guide for the students and developers.

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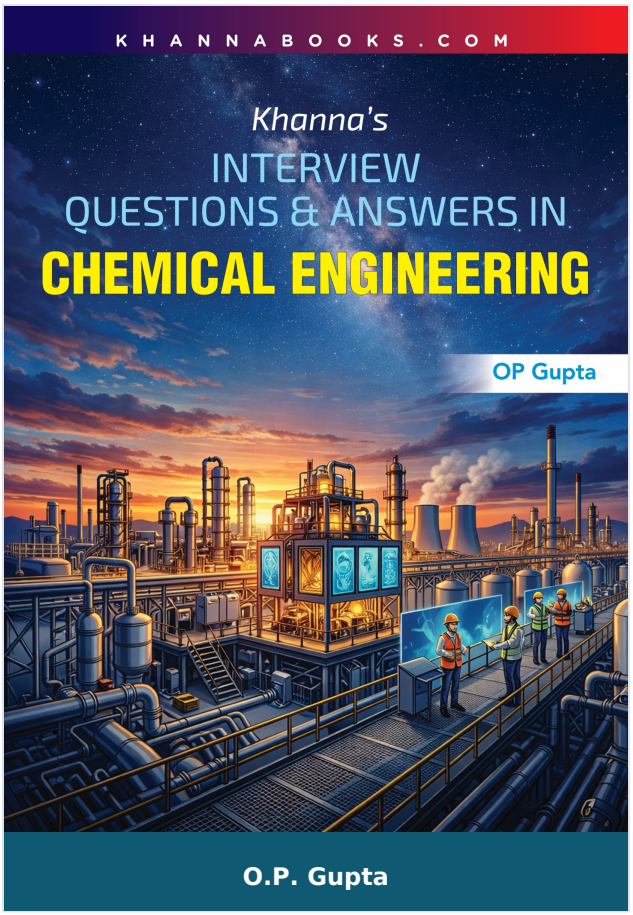

Khanna's Interview Questions & Answers in Chemical Engineering

Author :	O.P. Gupta
ISBN 13 :	978-93-77082-49-9
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Country Origin :	India

Product Description

Interview Questions and Answers in Chemical Engineering by O.P. Gupta is a comprehensive, meticulously structured resource designed to bridge the gap between academic learning and professional recruitment. This first-edition volume provides a deep dive into the core pillars of the field, covering essential topics such as Fluid Mechanics, Heat Transfer, Mass Transfer, and Instrumentation. By presenting technical concepts in a clear question-and-answer format, the book helps readers master complex theories while simultaneously preparing them for the practical rigors of the industry.

The book is tailored for a wide-ranging audience, including diploma, degree (B. Tech.), and postgraduate (M. Tech.) students, as well as PhD candidates defending their theses. It also serves as an indispensable guide for professionals preparing for associate membership examinations like AMIE and AMIIChE, and for those appearing for recruitment interviews at premier public and private sector organizations like BARC, SAIL, and IOC. With its focus on both foundational principles and real-world applications—ranging from valve operations to advanced membrane separations—this book acts as a vital tool for anyone looking to excel in the chemical engineering profession.

Salient Features

• Core Technical Mastery: Comprehensive coverage of fundamental subjects like fluid mechanics, heat transfer, and thermodynamics.

• Interview-Ready Format: Concepts presented in a concise question-and-answer style, ideal for viva-voce and recruitment preparation.

• Industrial Equipment Insights: Functional details on hardware like orifice meters, venturi scrubbers, and various heat exchangers.

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• Advanced Separation Processes: In-depth explanations of liquid-liquid extraction, crystallization, and membrane-based techniques.

• Practical Applications: Strong focus on real-world scenarios, including wastewater treatment and industrial process control.

• Safety & Instrumentation: Critical guidance on PID controllers and specialized gauges for operational safety.

• Competitive Exam Alignment: Content tailored to the requirements of GATE, AMIE, and PSU recruitment exams.

• Diverse Domain Scope: Covers emerging and miscellaneous topics like carbon sequestration and environmental engineering.

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Table Of Contents

- Fluid Mechanics
- Instrumentation
- Valves
- Pumps
- Ejectors
- Fans, Blowers and Compressors
- Mixing
- Fluidisation
- Heat Transfer (Dimensionless Groups in heat Transfer)
- Temperature Measurement Instruments
- Thermal insulation
- Shell and Tube Heat Exchngers
- Evaporation and Evaporators
- Heat Pumps
- Steam Traps
- Compact Heat Exchangers
- Fired Heaters
- Mass Trasfer
- Mass Transfer with Chemical Reaction
- Packed Columns
- Mass Transfer Processes
- Diffusion
- Liquid-Liquid Extraction

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- Crystallization
- Humidification and Water Cooling
- Drying
- Adsorption
- Distillation Column
- MISCELLANEOUS QUESTIONS

Author

O.P. Gupta

O.P. Gupta Om Prakash Gupta is basically being a chemical engineer, he has a practising experience of efficient Ennergy management and HR functions in steel Industry for more than three decades. privileged to be the youngest writer of technical books in the country (for he had written his first book at the age of 24 years while doing M. Tech. at I.I.T kanpur in 1979), he has authored many frontline books for engineering students. besides, being the regular faculty member in technical courses for Management Trainees (Technical), he has also visited england and france on a study tour sponsored by United Nations Development Programme (UNDP) to study the scope of energy conservation in steel plants in 1987.

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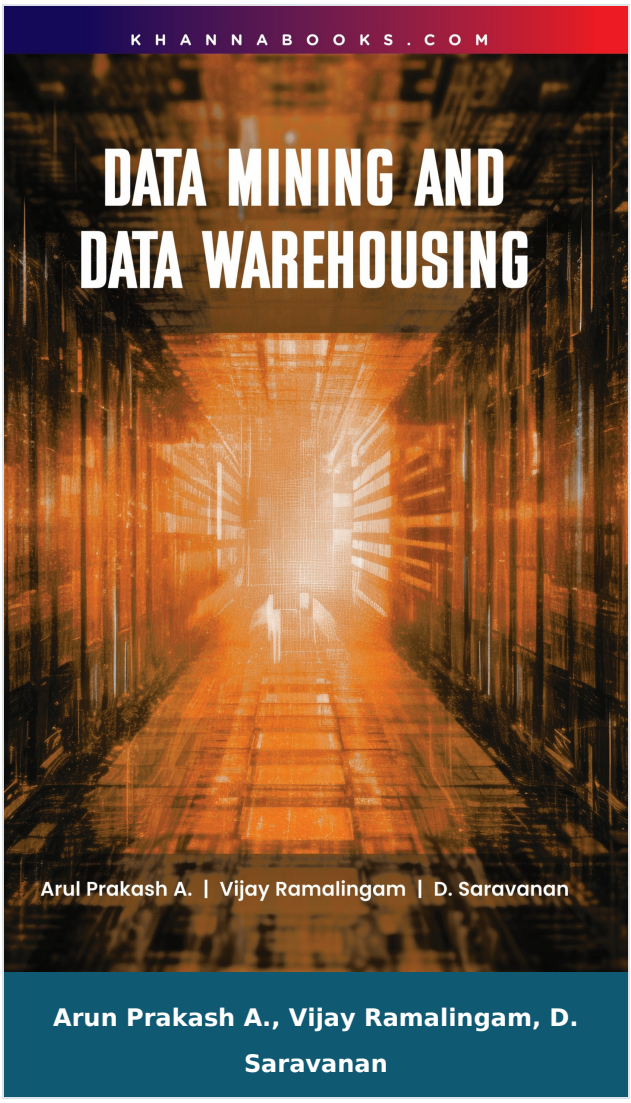

Arun Prakash A., Vijay Ramalingam, D. Saravanan

Data Mining and Data Warehousing

Author :	Arun Prakash A., Vijay Ramalingam, D. Saravanan
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Product Description

In the contemporary digital age, where data has become the lifeblood of industries, the ability to effectively collect, store, and analyze massive volumes of information is paramount. Data Mining and Data Warehousing serves as an indispensable resource, offering a comprehensive and insightful exploration of these dynamic, interconnected disciplines. This book acts as a crucial bridge, guiding readers from foundational theoretical principles—such as the Knowledge Discovery in Databases (KDD) process—to cutting-edge practical applications required to navigate the modern, data-driven environment.

The core purpose of this text is to empower readers to extract implicit, previously unknown, and potentially useful patterns from large datasets, transforming raw information into strategic business decisions. The content is systematically structured, beginning with Data Preprocessing and Data Warehousing concepts like multi-dimensional modeling, OLAP operations, and various schemas (Star, Snowflake). It then thoroughly covers essential data mining techniques: Association Rule Mining, Classification and Prediction, and Cluster Analysis. Concluding with discussions on the social impacts and real-world applications in areas like financial analysis and the retail industry, this text is an invaluable tool for students in Computer Science and Data Science, IT professionals, and researchers seeking to leverage data for a competitive advantage.

Salient Features:

• KDD & Preprocessing Focus: Thoroughly explains the steps of Knowledge Discovery in Databases (KDD), including essential processes like data cleaning, integration, selection, and transformation, preparing raw data for effective mining.

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• Multidimensional Modeling: Detailed coverage of Data Warehousing components, the Multi-Dimensional Data Model, and its schemas, such as Star and Snowflake. It also contrasts OLAP and OLTP systems.

• Association Rule Mastery: Explores mining frequent itemsets, associations, and correlations using powerful methods like Candidate Generation and FP-Growth, along with finding Multi-Level and Constraint-Based rules.

• Classification & Prediction: Deep dive into key predictive models, including Decision Tree Induction, Bayesian Classification (Naïve Bayes), Support Vector Machines (SVM), and neural networks like Backpropagation.

• Comprehensive Clustering: Systematically presents a wide range of clustering techniques, covering Partitioning (k-means), Hierarchical, Density-based (DBSCAN), and Model-based methods for effective group discovery.

• Data Mining Architectures: Explains the full system architecture, components, and functionalities of data mining systems and examines different integration schemes with data warehouses (e.g., tight coupling).

• Real-World Case Studies: Includes dedicated sections on the practical utility and social impacts of data mining, with case studies on applications like Financial Analysis, the Retail Industry, and mining the WWW and Text Databases.

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Table Of Contents

- Data Mining
- Data warehousing
- Association Rule Mining
- Classification and Prediction
- Clustering, Applications & Trends

Author

Arun Prakash A.

Arul Prakash A. Vijay Ramalingam D. Saravanan

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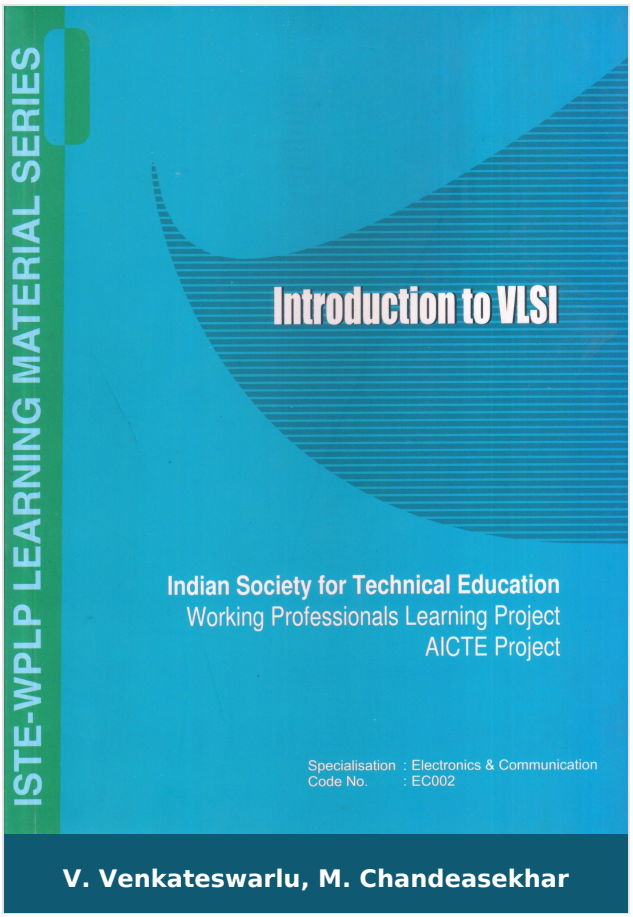

Introduction to VLSI

Author :	V. Venkateswarlu, M. Chandeasekhar
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Product Description

The growing applicati0ns of Very Large Scale Integration in all the fields of electronics, particularly consumer and professional electronics, demand the working engineers/professionals to know more about VLSI. With this objective in view, the Indian Society for Technical Education (ISTE), which is a non-profit organization, requested the authors to prepare Learning Materials on VLSI for the working professionals. The material in this Book is prepared by emphasizing the basics of CMOS (Complementary Metal Oxide Semiconductors) Transistors, their characterization, process, Logic circuits, subsystems, and the design of systems using Computer Aided Design (CAD). This material gives the overview of VLSI, particularly the digital circuits and systems. The topics for this book are based on many text books on VLSI and from materials given in various websites. We thank all the authors and publishers of the books and websites.

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Table Of Contents

- FOREWORD
- PREFACE
- Introduction to VLSI
- CMOS Processing
- Characteristics of CMOS Compinents
- Logic Gates
- Sequential Logic/ Machines
- Subsystems
- VLSI Design Methodologies
- HDL
- VLSI CAD Systems
- Abbreviations and Symbols
- References

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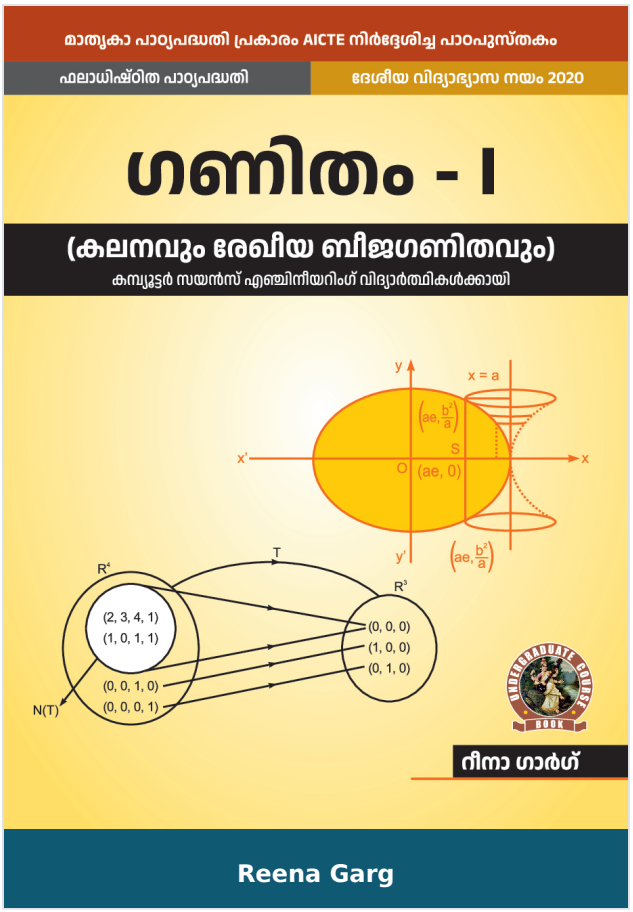

Mathematics –I (Calculus and Linear Algebra) For Computer Science Engineering Branches

Author :	Reena Garg
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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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Table Of Contents

- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Abbreviations and Symbols
- List of Figures
- Guidelines for Teachers
- Guidelines for Students
- Calculus I.
- Calculus II.
- Matrices.
- Vector Spaces I.
- Vector Spaces II.
- Index
- CO and Po Attainment Table.

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 book more valuable for the knowledge seekers.She has published more than 10 research

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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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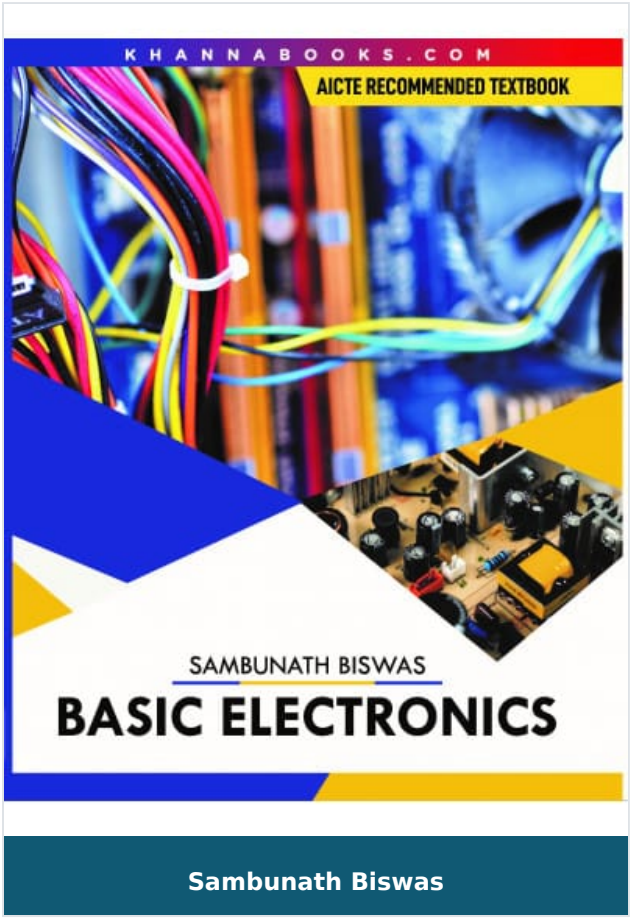

Sambunath Biswas

Basic Electronics

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Product Description

This is an age of Electronics. At the dawn of the new millennium, it is no denying the fact that electronics has influenced the lifestyles of mankind in a manner never seen before. In order to understand the fundamentals of electronics, basic electronics is now taught as a compulsory subject for students of all branches of engineering. This book is planned to meet the requirements of a good and up-to-date book on basic electronics. The book discusses in a clear and concise way the fundamental principles and applications of basic electronics. The readers should find the book interesting particularly with large number of objective questions, solved problems and exercise problems.

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Table Of Contents

- Ch-1: Introduction to Electronics
- Ch-2: Fundamental Concepts: Energy Bands in Solid
- Ch-3: Semiconductor Diodes and Miscellaneous Devices
- Ch-4: Bipolar Junction Transistors
- Ch-5: Bipolar Transistor Biasing
- Ch-6: Single Stage BJT Amplifiers
- Ch-7: Field Effect Transistors
- Ch-8: Power Amplifiers
- Ch-9: Frequency Response of Amplifiers
- Ch-10: Feedback in Amplifiers
- Ch-11: Oscillators and Multivibrators
- Ch-12: Modulation and Demodulation
- Ch-13: Integrated Circuits
- Ch-14: Operational Amplifiers
- Ch-15: Television

Author

Sambunath Biswas

Dr. Sambunath Biswas had his schooling from Howrah Akshya Sikshayatan. He then joined the St. Xaviers College for the B.Sc(Hons) degree in Physics from the University of Calcutta.Subsequently, he obtained the B.Tech and M.tech degrees in Radio Physics and Electronics from University of Calcutta in 1967 and 1968 respectively. Later on , he obtained the degree of Doctor of Philosophy from the University of Calcutta in Radio Physics and Electronics.He is also winner of the PRS award of the University of Calcutta.

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He is a MOVAT medalist of the University of Calcutta. In March 1972, he joined Dept. of Electronics and Telecommunication Engineering, Bengal Engineering College as a lecturer. At present, he is working in the same dept. as a Professor. He was the Head of the Dept. of Electronics and Telecommunication Engineering during the period April 1988 to March 1989 and April 1995 to march 1998. he visited the federal Republic of Germany on DAAD Fellowship during the periods December 1979 to March 1981 and also in 1992.

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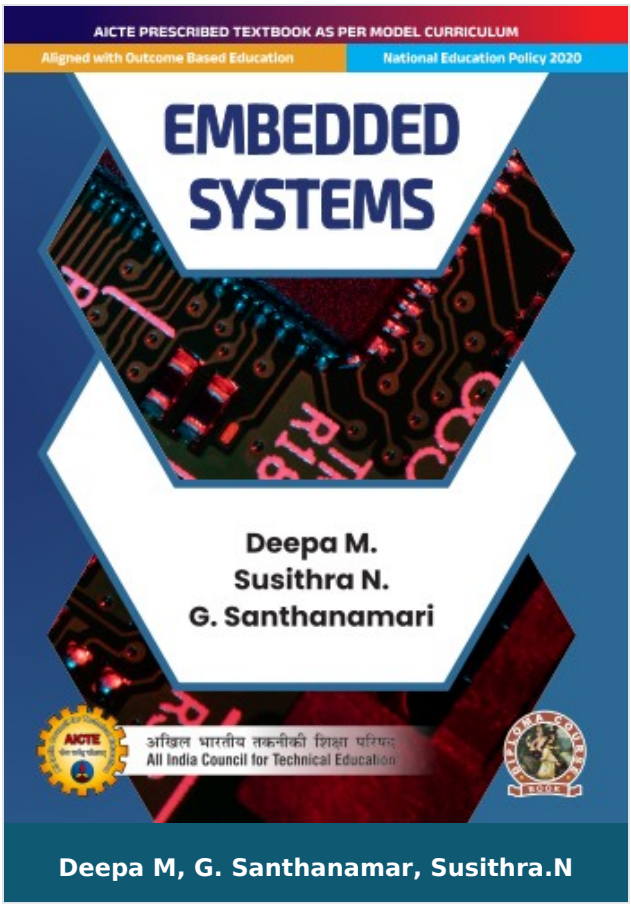

Embedded Systems

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Product Description

Embedded Systems

This book presents the materials in a way that is both lucid and engaging. Through detailed explanations, real-world examples, and hands-on projects, the book provides knowledge and skills needed to excel in this dynamic field of embedded systems.

Salient Features:

- Introduction to the Arduino IDE, basics of programming with Arduino (Syntax, structure, functions), and detailed examples of sketches (programs) for various projects.
- Step-by-step guide to create simple to complex projects, including illustrations and diagrams for wiring and assembling, along with over 30 code examples and explanations for each project.
- Detailed description of different types of sensors (temperature, light, motion, etc.) and how to control them using Arduino.
- Advanced concepts like PWM, serial communication, and interrupts, as well as network communication using wi-fi and Bluetooth.
- Troubleshooting common issues and suggested solutions.
- A list of inspiring project ideas for aspiring project enthusiasts.
- Unit-wise recap to summarize important points and mind map as a tool for visual interpretation and summary of the unit.
- IKS insights offering analogies and relevance of the Indian Knowledge System to the contemporary practices and technologies.

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Table Of Contents

- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Guidelines for Teachers
- Guidelines for Students
- Abbreviations and Symbols
- List of Figures
- List of Tables
- Embedded C basics and operators for Arduino
- Embedded C control structure blocks
- Introduction to Arduino mega
- Communication with Arduino
- References
- Project inspirations
- Troubleshooting Q&A
- Appendices
- CO and PO Attainment Table
- Index

Author

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Engineering Graphics

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Product Description

“ Engineering Graphics” is a compulsory paper for the first year Diploma course in Engineering & Technology. Syllabus of this book is strictly aligned as per model curriculum of AICTE, and academic content is amalgamated with the concept of outcome based education.

Book covers six topics- Basic Elements of drawing , Orthographic Projections, Isometric Projections, Free Hand Sketcher of Engineering Elements, Computer Aided Drafting Interface, Computer Aided Drafting. Each topic is written in easy and lucid manner. Every chapter contains a set of exercise at the end of each unit to test the student’s comprehension.

Some salient features of the book:

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

2. In start of each unit learning outcomes are listed to make the student understand what is expected out of him/ her after completing that unit.

3. Book provides lots of recent information, interesting facts, Codes for E-resources, QR Code for use of ICT, projects, group discussion etc.

4. Student and teacher centric subject materials included in book with balanced and chronological manner.

5. Figures, tables and software screen shots are inserted to improve clarity of the topics.

6. Apart from essential information a ‘Know More’ section is also provided in each unit to extend the learning beyond syllabus.

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

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

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Table Of Contents

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

Author

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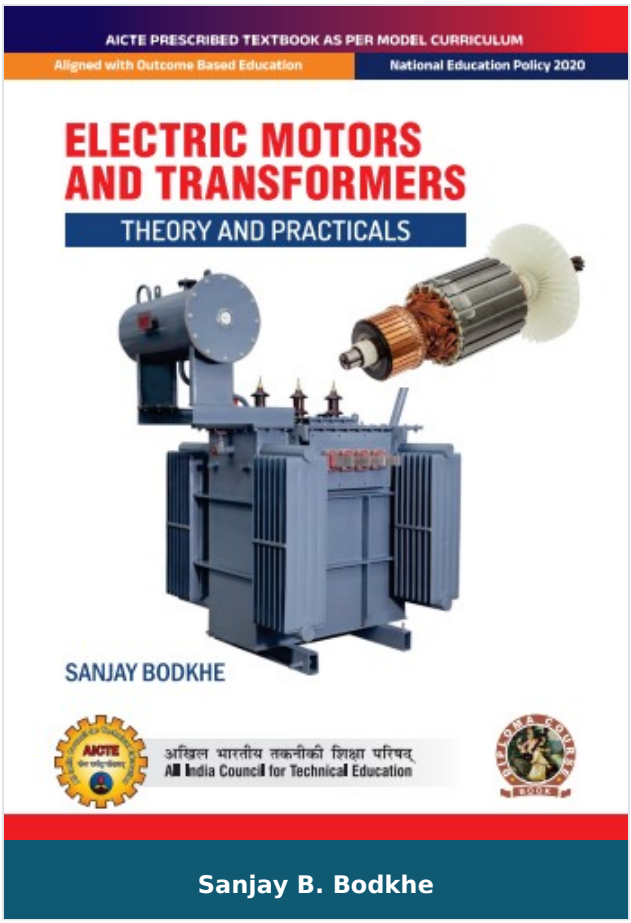

Electric Motors and Transformers (Theory and Practicals)

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Product Description

Electric Motors and Transformers (Theory and Practicals)

This book gives detailed information about the dc motors and the transformers that are considered as a workhorse of industry and heart of power system respectively. Although the modern industrial trend is to use ac motors and the electronically switched motors, the dc motors are still considered as a highly reliable and highly controllable alternative. Transformer is a device which finds an unavoidable application not only in transmission and distribution of ac power, but also in electronic and communication circuits. In this book, every concept is explained in the simplest possible way with maximum number innovative diagrams and examples. Wherever possible, photographs of real systems are provided. Laboratory experiments based on the theory are given at the end of every unit. Although this book is written for the students of diploma level program, it will prove to be useful to undergraduate engineering students as well. The content of this book is as per the syllabus of AICTE and is aligned with 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, illustrations, exercise, experiments. Student centric subject materials included in book with balanced and chronological manner.
- 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 are provided in each unit.

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Table Of Contents

- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Guidelines for Teachers
- Guidelines for Students
- Abbreviations and Symbols
- List of Figures
- List of Tables
- DC Generator
- Direct current motor
- Single Phase transformers
- Three phase transformers
- Special purpose transformers
- Co and Po Attainment Table
- Index

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