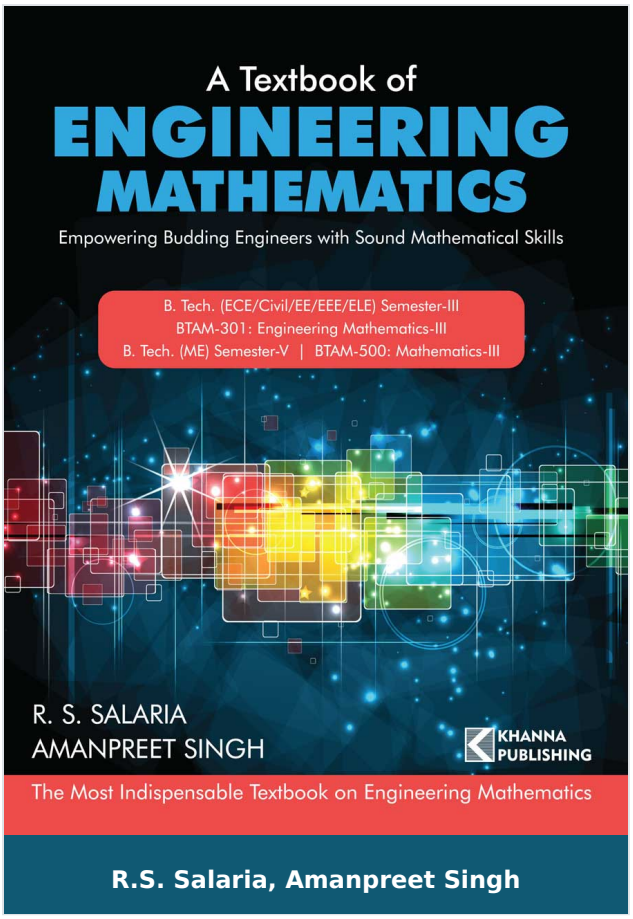

A Textbook of Engineering Mathematics-III (ECE/Civil/EE/EEE/ELE)

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Product Description

The Subject of Engineering Mathematics is an integral part of the course curriculum of Bachelor of Engineering/Technology (B.E./B.Tech) program of all Indian Universities, and is taught in firs and/or second semester(s). The present state of teaching and learning of Mathematics is not that encouraging. A lot has to be done on both the fronts.

The book in your hand is another step of our commitment to uplift the standard of teaching and learning of Mathematics. We assure you that in our continuous journey in this endeavor and with your whole hearted support, we hope to make significant contribution in the teaching and learning of Mathematics. We hope to see that day when we hear from our students that Mathematics is wonderful subject and your all are relishing it. This book is designed to serve as a textbook for the students of B.Tech. (ECE/Civil/EE/EEE/ELE)Semester-III and B.Tech.

(ME) Semester-V of Punjab Technical University, Jalandhar

While writing, due care is taken to present the subject matter in a simple and illustrative manner so that a reader can grasp it with quite ease and can built bad=sic and conceptual knowledge in the subject.

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- Useful Formulae, Theorems and Results
- Fourier Series
- Laplace Transformations
- Special Functions
- Partial Differential Equations
- Applications of Partial Differential Equations
- Functions of Complex Variables

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

Amanpreet Singh

Amanpreet Singh Amanpreet Singh SGTB Khalsha College, Anandpur Sahib, Formerly with Rayat-Bahra Institute of Engineering& Nano Technology, Hoshiarpur.

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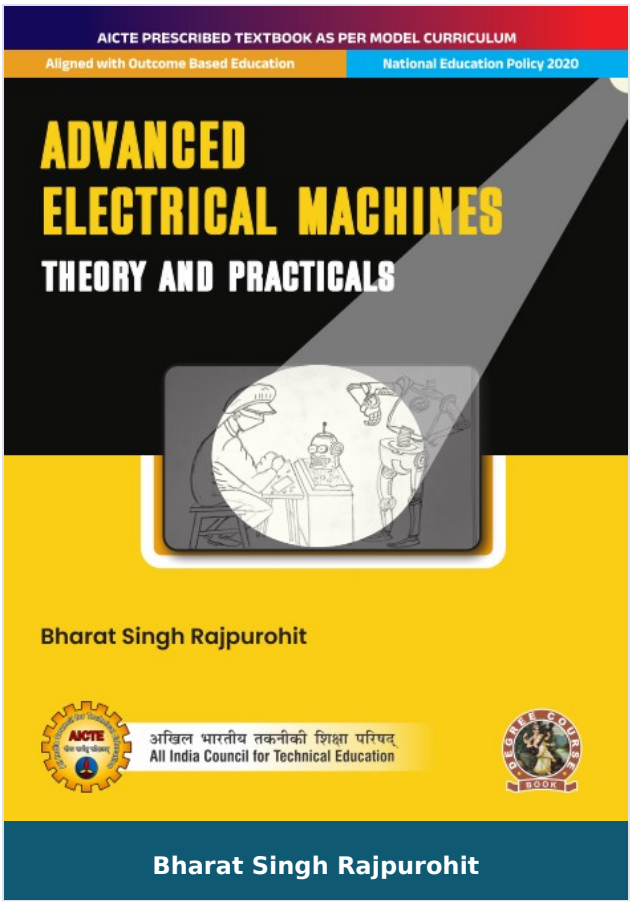

Advanced Electrical Machines: Theory and Practicals

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Product Description

Advanced Electrical Machines: Theory and Practicals

“Advanced Electrical Machines: Theory and Practical’s” is a course that equips engineering students with a comprehensive understanding of advanced concepts in AC electrical machines, enabling them to analyze, design, and evaluate machine performance. This textbook offers a well-structured, student friendly introduction to AC machines, specifically tailored for fourth semester undergraduate students of core engineering branches. Drawing upon the AICTE’s revised model curriculum, the material presents a balanced integration of theory and practical applications. It covers key topics such as the fundamentals of AC machine windings, the behavior of pulsating and revolving magnetic fields, the operational characteristics of induction and synchronous machines, and single-phase motor theory. Emphasis is placed on understanding the underlying electromagnetic principles, performance characteristics, and modern methods for control and testing. Book will help students in building a strong foundation and to gain both analytical and practical competencies. By the end of this course, students will be able to understand, analyze, and characterize the AC machines.

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- Figures, tables, and output waveforms are included to improve the clarity of the topics.
- Apart from essential information a ‘Know More’ section is also provided in each unit to extend the learning beyond the syllabus.
- At the end of each chapter, short questions, objective questions, and long answer exercises are given for the students to practice.
- Problems including numerical examples are solved with systematic steps provided.

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- List of Figures
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- Unit summary
- References and suggested readings
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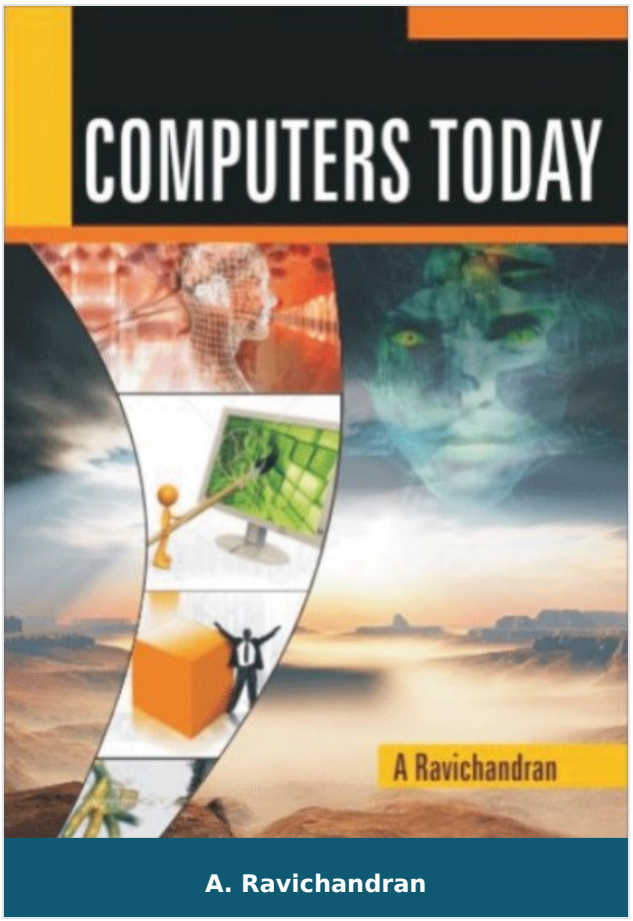

A. Ravichandran

Computers Today

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Product Description

This book covers all the aspects of computers starting from development of a computer to it software. Hardware, communication and many more. Since now a days computers are finding its way into every home, business industry, corporate and research activity, therefore the purpose of this book is to cover all the targeted audiences including beginners, advance users, computer specialists and end users in a best possible manner. After going through this book you will be to find out- If a computer is needed by you or your organization. specification of the computer required by you or your organization. How installation of the computer will benefit you or your organization. Time for updating of your computer/ its hardware/ software. Basic as well as advance know-how about computers, its software and hardware. fast and easy steps for better working.

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- Applications Software
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- Computer Security, Crime and Ethics
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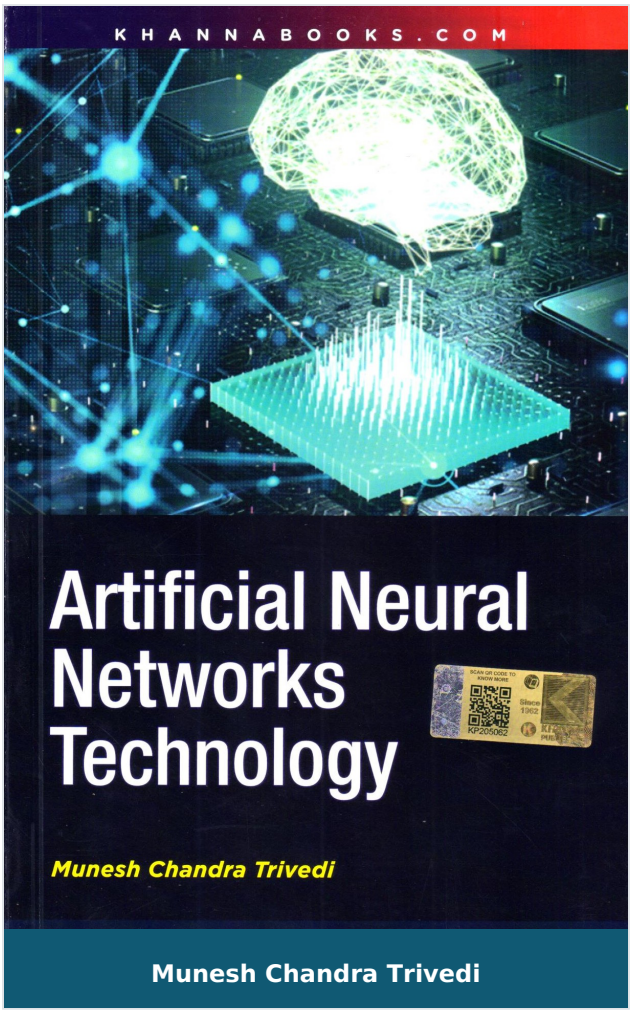

Artificial Neural Networks Technology

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Product Description

There are many books available in the market on the proposed topic but none of them can be termed as comprehensive. Besides, students face many problems in understanding the language of the books. Keeping these points in mind, artificial neural network Technology was prepared. which should be simple enough to comprehend and comprehensive enough to encompass all the topics of different institutions and universities. Simple & easily understandable language. Includes real world examples to illustrate the concepts, contains latest topics such as downsizing & right sizing, etc, provides numerous illustrations, examples and end-chapter exercises.

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- Application of Artificial Neural Network Classification
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- Unsupervised Learning
- Models of Artificial Neural Network
- Network Selection
- How Artificial Neural Networks Are Being Used
- Emerging Technologies
- Software Architecture
- Network-based Application Architecture
- Network-based Architectural Styles
- Designing the Web Architecture: Problems and Insights
- Representational State Transfer (REST)
- Experience and Evaluation

Author

Munesh Chandra Trivedi

Dr. Munesh Chandra Trivedi has more than 20 years of experience in the field of computer science & Engineering and has worked in Prestigious Institutions. He has more than 10 years' experience in various administrative responsibilities e.g., Dean (academics), Head of Department, TEQIP-111 Coordinator, PG coordinator, EDC cell Coordinator. Currently working Tripura, India, and Associate Professor and HoD (IT), Rajkiya Engineering College, Azamgarh, up (state Govt Institution of UP) with the

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additional responsibility of Dean Academics of the institute & Associate Dean UG Programs, Dr. APJ Abdul Kalam Technical University, Lucknow (State Technical University). He was also the Director (In-charge) at Rajkiya Engineering College, Azamgarh. He had successfully filed 81 patents (65 National and 16 International Patents (Germany, South Africa, and Australia)), out of which 40 patents were granted. He has published 12 textbooks and 168 research papers in different International Journals and proceedings of repute. He has also edited 38 books for springer Nature. He successfully supervised 14 PhD students and received numerous awards, including the Young scientist Visiting Fellowship, Albert Einstein Research scientist Award, Best senior Faculty Award, Outstanding Scientist, Dronacharya Award, Author of the Year, and vigyan Ratan award from different national, as well as international forums. He has organized more than 32 international conferences technically sponsored by IEEE, ACM, AND Springer. Dr.

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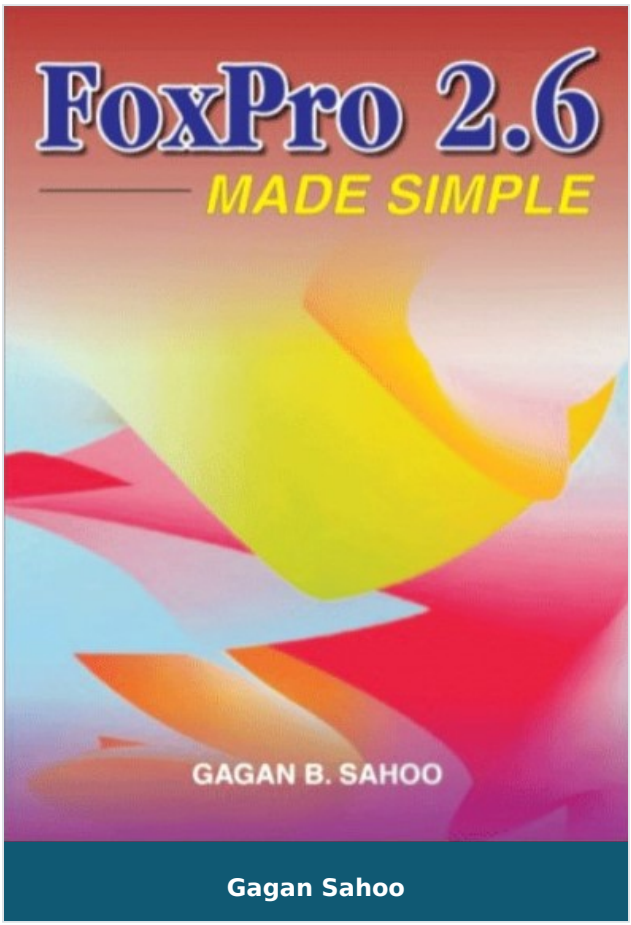

Gagan Sahoo

FoxPro 2.6 Made Simple

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Product Description

FoxPro for windows is a program that runs on IBM and other IBM-compatible PCs and operates under microsoft windows. FoxPro for window is a database management system(DBMS) with which you can: Create and maintain a list of data called a table or database files, such as library list, member list, inventory, etc. Maintain any collection of information using FoxPro for MS-DOS and windows, sort and organize tables. Search for/retrieve information within a table. Generate reports, input forms, and mailing label from tables. Organize information in multiple tables and retrieve data simultaneously from any of the tables. Alter existing tables and arrange the structure.

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- Full Screen Data Editing
- Control Flow
- Environment Set Commands
- Windows Menus and Popups
- Reporting Through Programming
- Structural and Procedural Programming
- Event Trapping
- Case Studies Admission System
- Appendix

Author

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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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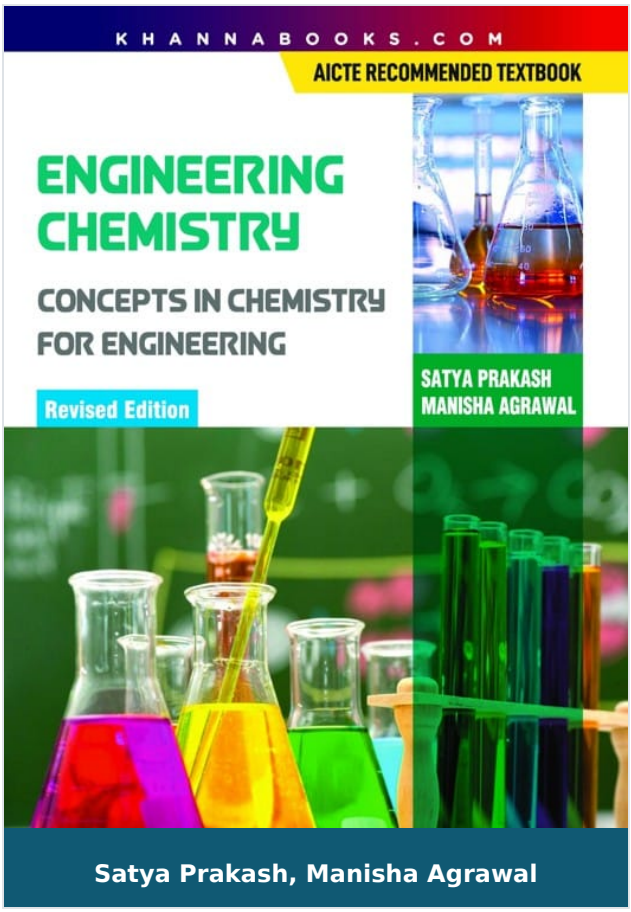

Engineering Chemistry

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Product Description

The book has been written in simple language to help self study. The concepts have been explained with the help of equations and diagrams. The diagrams have been nicely labeled for clear understanding. Numerical examples have been solved with systematic steps. Solved and unsolved problems have been included. Experiments prescribed for engineering chemistry course have been included. theory and principle of each experiment have been explained in detail. Experimental producers have been written in an step wise manner. Viva voice has been discussed at the end of each experiment. Important points have been emboldened.

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- Intramolecular Forces and Potential Energy Surfaces
- Use of Free Energy in Chemical Equilibria
- Periodic Properties
- Stereochemistry and Organic Reactions
- Objectives
- Index

Author

Satya Prakash

Satya Prakash is presently professor of Chemistry at Guru Teg Bahadur Institute of Technology, GGSIP University, New Delhi. He has earlier been associated with teaching and research work at Delhi University, University of Jodhpur, University of New South Wales, Sydney (Australia), La Trobe University, Melbourne (Australia) and University of Zambia, Zambia for about 40 years. Dr. Prakash has published about 25 research papers in National and International Journals of repute. He has also vetted and edited a number of books published by the Ministry of HRD, Government of India."

Manisha Agrawal

Manisha Agrawal Dr. Manisha Agarwal is Dean, Basic Sciences at Chhattisgarh Swami Vivekanand Technical University Bhilai. Professor and head, Department of Chemistry at Rungta College of Engineering & Technology, Bhilai, (C.G.). She completed Ph. D. from Pt. Ravishankar Shukla University, Raipur in 1999. Since then she has been engaged in teaching and research. Dr. Manisha has authored several papers which have been

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published in SCI indexed International and National journals. She has organised more than 10 Conferences and workshops as convener among them four were International Conferences. She has credited five books as author, three patents as inventor and applicant and six Research Project Grants as Principal Investigator from Government Funding agencies like AICTE, CCOST and CSVTU. She has supervised 5 M. Phil. Students, 12 BE and Diploma students. Presently 6 research scholars are perusing Ph. D. under her supervision.

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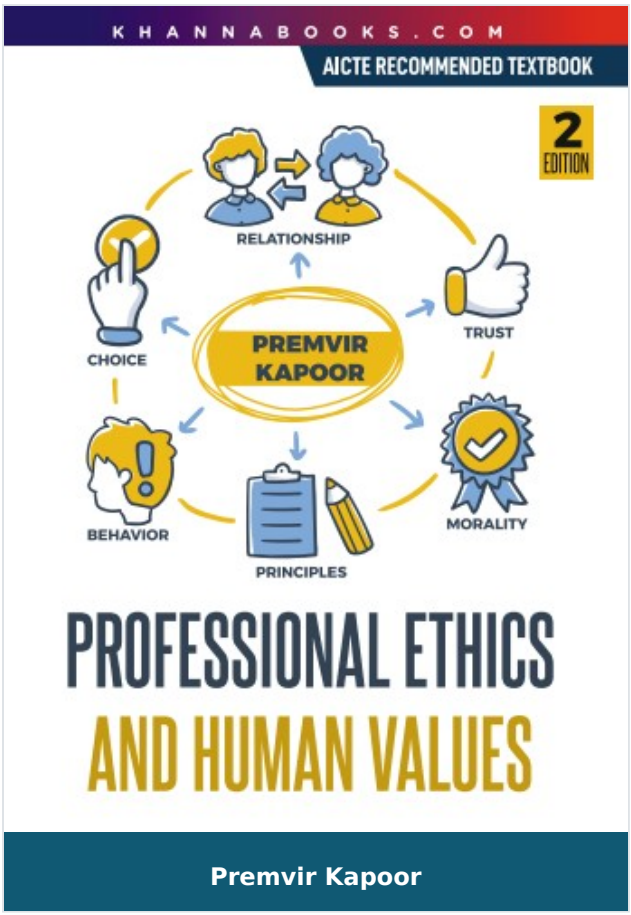

Professional Ethics and Human Values

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Product Description

The book explain the concept of Business Ethics and Human Values in proper Perspective and shall make the readers realise the important of value and ethics in business and provide them a framework to take ethical decisions by following a life of values a person develop certain fine qualities hope honesty, courage, confidence, maturity, helpfulness and achieve aspiration dream by using the right way of thinking and doing.

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- Chapter-2: Values in Management
- Chapter-3: Business Ethics
- Chapter-4: Professional Ethics
- Chapter-5: Environmental Degradation and Control
- Chapter-6: Science of Living (Jeevan Vigyan)
- Chapter-7: Value Education
- Chapter-8: Personality and Stress Management
- Chapter-9: Review Questions

Author

Premvir Kapoor

Dr. Premvir Kapoor BBM(BHU), MBA(Podar Institute of Management), LLB Delhi, Ph.D(Meerut University), Diploma in Training and Development, ISTD New Delhi, Diploma in Corporate Laws and Secretarial Practice(Indian Law institute New Delhi). He has worked s Director in Sri Ram Institute of Management and IIMT Institute of Management, Greater Noida and Professor of Human Resource Management at IMS Ghaziabad and Lingaya University Faridabad. He has been associated with some of the leading Institutes of Company Secretaries of India, Institute of Marketing management, Western U.P Productional Council. He is a member of Indian Law Institute, New Delhi. He has been visiting faculty at various prestigious business schools.

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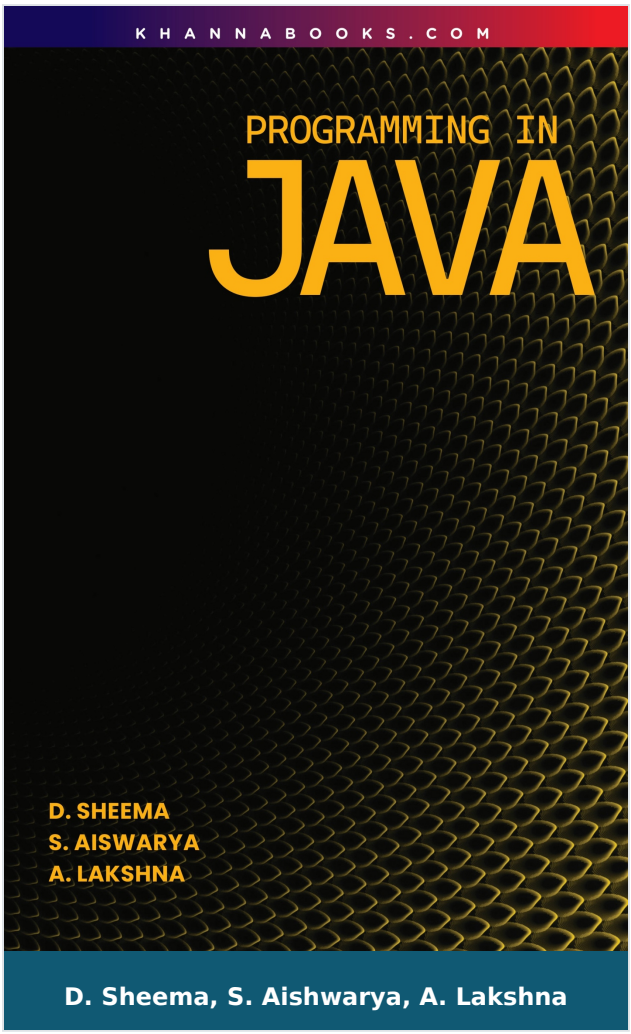

Programming in Java

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Product Description

This book is your complete resource for learning Programming in Java. Designed for both students and aspiring developers, it offers a robust and comprehensive path to mastering the Java language. You will start by building a strong foundation in Java basics, including the concepts of the Java Virtual Machine (JVM) and bytecode that enable its famous platform independence. The book then systematically covers the core principles of Object-Oriented Programming (OOP), such as inheritance, polymorphism, and encapsulation. By progressing to advanced topics like exception handling, I/O programming, Collections, and database connectivity (JDBC), you will gain the skills necessary to develop secure, high-performance applications.

Salient Features:

• Foundation to Advanced: Provides a clear, step-by-step learning curve, covering all topics from Java basics, data types, and tokens to enterprise technologies like JDBC, Servlets, and JSP.

• Write Once, Run Anywhere: Detailed explanation of the Java Virtual Machine (JVM) and Bytecode, highlighting the language's key feature of platform independence (WORA).

• Object-Oriented Mastery: In-depth coverage of OOP concepts including Classes, Objects, Inheritance, Method Overloading, and Method Overriding, with clear code examples.

• Focus on Robustness and Security: Emphasis on Java's built-in features for early error checking, runtime safety, and security mechanisms to protect applications.

• Practical Learning: Includes real-world examples and step-by-step instructions for setting up the Java Development Kit (JDK) and compiling and running your first programs.

• Key Programming Constructs: Thorough discussions on essential structures like Java Tokens, Access Modifiers, Operators, Control Flow Statements, and Exception Handling for writing efficient code.

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- Java Basics
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- Packages, Interfaces and Threads
- File Streams and Collections Framework
- GUI Programming, Database Connectivity, Server-Side Programming

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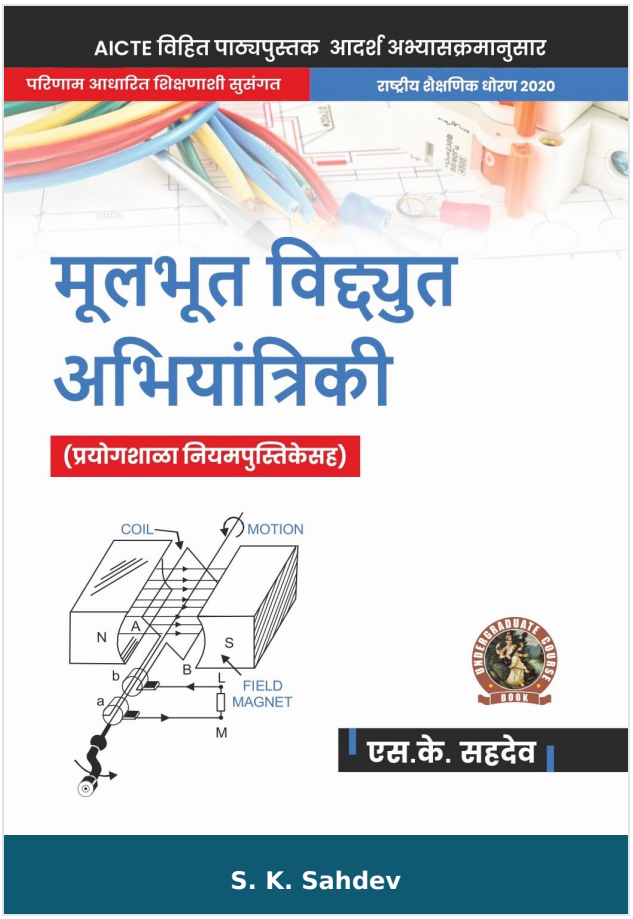

Basic Electrical Engineering (with Lab Manual)

Author :	S. K. Sahdev
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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
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- Transformers
- Electrical Machines
- Power Converters
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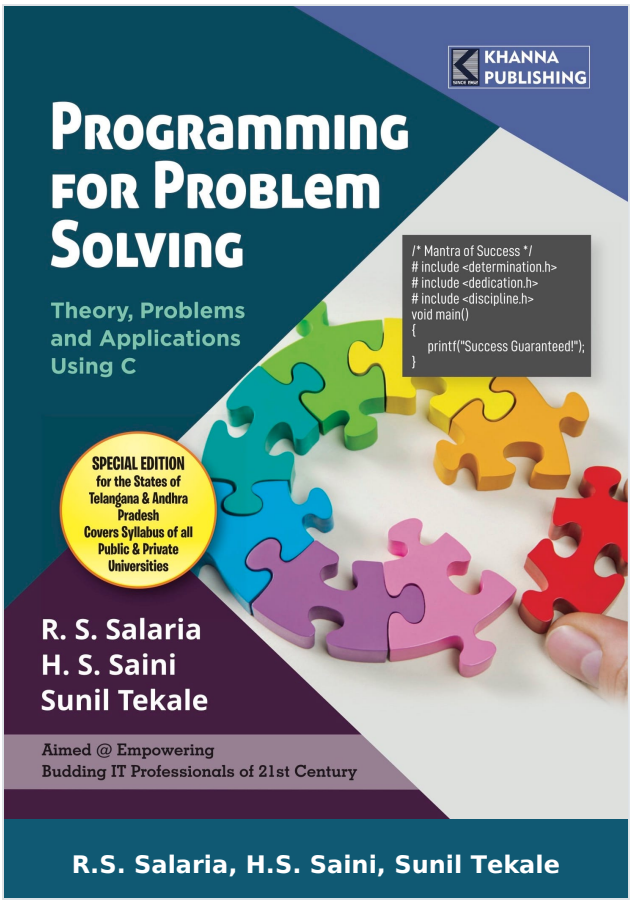

Programming for Problem Solving

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Product Description

This book is specially conceived with an aim to serve not only as a textbook to cover the syllabus of public & public universities, rather a intelligent book (i-book) that empowers readers to acquire 21st century problem solving skills and sharp coding skills.

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Author

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H.S. Saini

Prof. H.S. Saini Professor, Computer Science & Engineering Managing Director, Guru Nanak Group of Institutes, Hyderabad Taught at University of Westminster and Oxford Brookes University, UK Founder and Chief Editor of Journal of Innovation in CS/ECE/IT Recipient of Eminent Academia Award from Indus Foundation Mentored half a dozen startups in the state of Telangana Key member on the panel of NBA & NAAC expert committees Expert in the field of Fuzzy Systems, AI, Knowledge Based Systems and Web Technologies Established Industry-Academia Collaborations, Foreign University Collaborations and Centers of Excellence in Cutting Edge Technologies

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