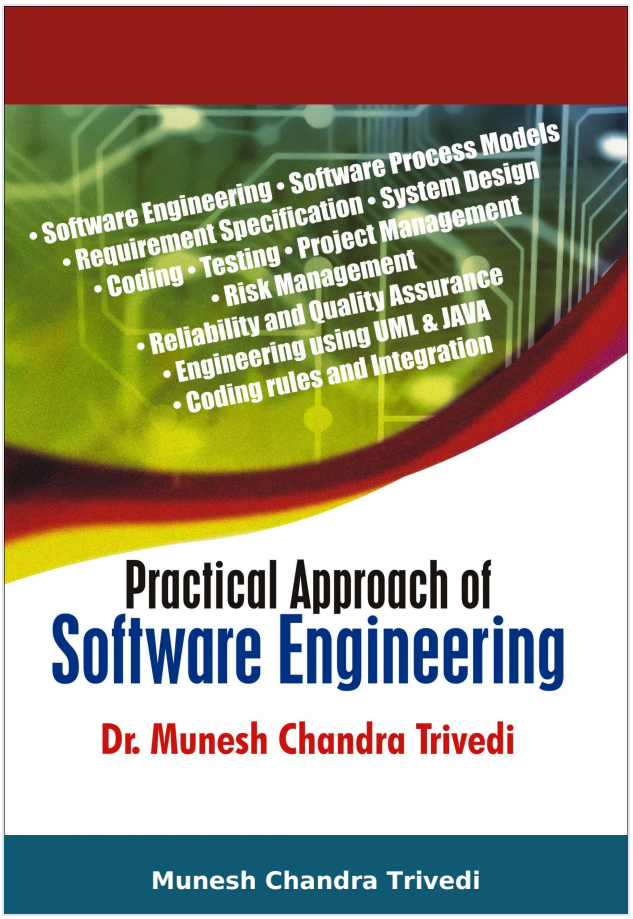


# Practical Approach of Software Engineering

| | |
|---|---|
| **Author :** | Munesh Chandra Trivedi |
| **ISBN 13 :** | 978-93-81068-14-4 |
| **ISBN 10 :** | 9381068143 |
| **E-ISBN 13 :** | 978-93-81068-14-4 |
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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 problem in understanding the language of the books, seeing these problems, it struck our mind that we should come up with a book in practical approach of software Engineering, which should be simple enough to comprehend and comprehensive enough to encompass all the topics of different institutions and Universities. What are the courses/markets for which your book could serve as a reference. Master of computer application, B. Tech (C.S.), B. Tech(I.T.), Bachelor of computer application, B.Sc./M.Sc./ (C.S.), PGDBM/MBA(I.T.)

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- Introduction to Software Engineering
- Software Process Models
- Software Requirement Specification
- System Design
- Coding
- Testing
- Software Project Management
- Software Risk Management
- Software Reliability and Quality Assurance
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- Programming Standards: Coding rules and Integration
- Annexure
- Lab Manual Software Engineering : Question Bank
- Multiple Choice Questions
- Index
- Question Papers


## 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),

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Rajkiya Engineering College, Azamgarh, up (state Govt Institution of UP) with the 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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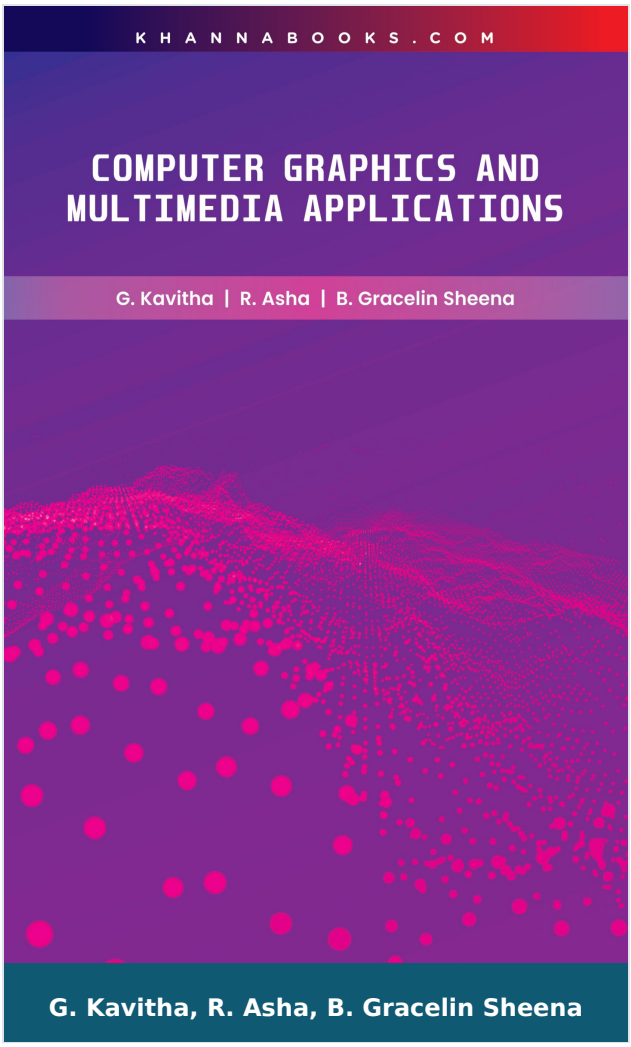


# Computer Graphics And Multimedia Applications

| | |
|---|---|
| **Author :** | G. Kavitha, R. Asha, B. Gracelin Sheena |
| **ISBN 13 :** | 978-93-55387-22-6 |
| **ISBN 10 :** | 9355387229 |
| **E-ISBN 13 :** | 978-93-55387-22-6 |
| **Edition :** | First |
| **Pages :** | 144 |
| **Type of book :** | Physical |
| **Year :** | 2026 |
| **Language :** | English |
| **Publisher :** | Khanna Publishing House |
| **M.R.P :** | Rs 280.00 |
| **Categories :** | New Arrivals, Book Store, Sathyabama Series |
| **Condition Type :** | New |
| **Country Origin :** | India |

## Product Description

### Computer Graphics And Multimedia Applications

This comprehensive textbook, Computer Graphics and Multimedia Applications, serves as an essential guide to the theoretical foundations and practical implementations of modern digital visualization and interactive media. Designed to bridge the gap between abstract computer science concepts and tangible real-world applications, the book offers a deep dive into the architecture of graphics systems, from the evolution of display devices—including Cathode Ray Tubes (CRT), Raster Scan, and contemporary Flat Panel Displays like LCD and Plasma—to the mathematical precision required for rendering.

The core theme revolves around mastering the generation and manipulation of visual data, covering crucial Output Primitives like line and circle drawing, with a meticulous comparison of efficient rasterization techniques such as the DDA and Bresenham's algorithms. Beyond 2D, the text meticulously explores advanced three-dimensional concepts, including various projection methods, detailed illumination and shading models (Lambertian, Phong), and sophisticated techniques for visible surface detection and texture mapping.

Crucially, the book seamlessly integrates these graphics principles with an in-depth exploration of Multimedia Applications, detailing core components, compression standards like JPEG and MPEG, audio/video processing, and animation techniques such as tweening and cel animation. This makes it an invaluable resource for undergraduate and postgraduate students in computer science and engineering, as well as professionals and researchers seeking to build foundational and practical expertise in digital design, interactive systems, and digital media development.

### Salient Features

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- **Optimized Drawing Algorithms**: Features a comparative analysis of the DDA and Bresenham’s algorithms, emphasizing the use of simple integer arithmetic for high-speed, accurate line and circle rasterization.
- **Display Device Technology**: Explores the mechanics and history of graphical output, covering Cathode Ray Tube (CRT) operation, Refresh CRTs, and modern Flat Panel Displays including Plasma and LCD.
- **Core 3D Visualization**: Provides an in-depth look at three-dimensional concepts such as Parallel and Perspective Projection, equipping the reader with knowledge to transform 3D scenes onto a 2D view plane.
- **Advanced Shading Models**: Detailed sections on rendering realism through illumination, covering techniques like Lambertian and Phong shading, and methods for generating realistic shadow effects on surfaces.
- **Multimedia Compression Standards**: Dedicated unit on digital media technology explaining crucial compression techniques like JPEG and MPEG, including their underlying Discrete Cosine Transform (DCT) and motion-compensation logic.
- **Graphics System Architecture**: Comprehensive overview of the components of a typical graphics system, detailing various input devices (e.g., mouse, trackball, digitizer) and hard-copy devices (printers, plotters).
- **Practical Animation Techniques**: Covers the core principles of creating motion, outlining the process of tweening (in-betweening) to generate fluid animation frames, alongside Cel Animation methods.

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## Table Of Contents


- Basics of Computer Graphics
- 2D Transformations and Viewing
- 3D Concepts and Fractal Geometry
- Visible Surface Detection Methods
- Introduction to Multimedia


## Author


**G. Kavitha**

G. Kavitha Associate Professor, Dept of CSE, Sathyabama Institute of Science and Technology

**R. Asha**

R. Asha Associate Professor, Dept of CSE, Sathyabama Institute of Science and Technology

**B. Gracelin Sheena**

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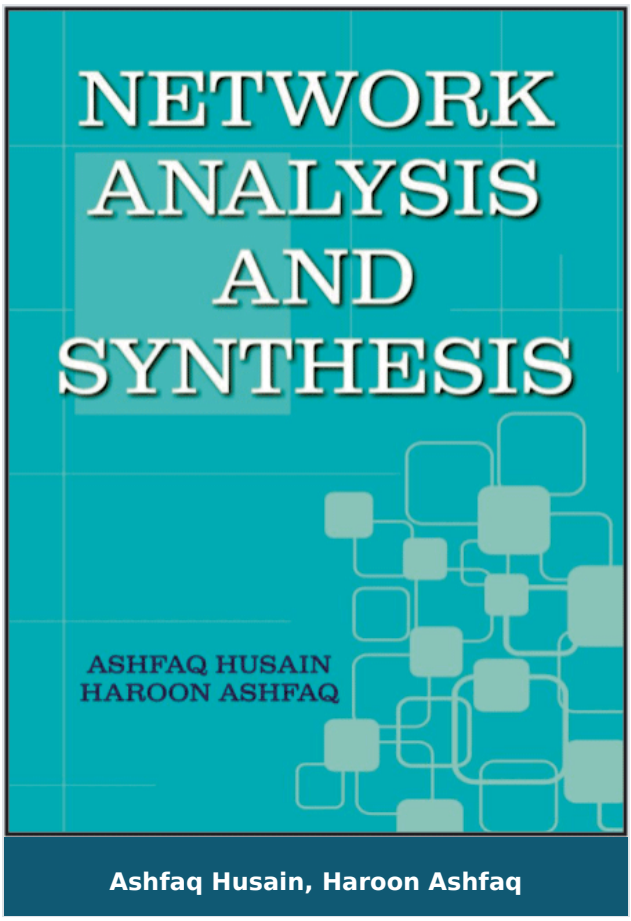


Ashfaq Husain, Haroon Ashfaq

# Network Analysis and Synthesis

| | |
|---|---|
| **Author :** | Ashfaq Husain, Haroon Ashfaq |
| **Edition :** | 1 |
| **Pages :** | 630 |
| **Type of book :** | Physical |
| **Year :** | 2013 |
| **Language :** | English |
| **Publisher :** | Khanna Publishing House |
| **M.R.P :** | Rs 225.00 |
| **Categories :** | Electrical, Electronics & Communication Engineering, Book Store |
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## Product Description

This book is intended to serve as a textbook for undergraduate students of electrical, electronics, computer science, instrumentation, control & communication engineering. Subject matter in each chapter develops systematically from inception basic concepts, principles and techniques clearly explained. Definitions, statement of laws, network theorems dealt with very clearly. Written in a very lucid manner. Large number of carefully selected worked examples in sufficient details step-by-step procedures given for solving problems, Most simplified methods used. Ideally suited for self study.

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- Chapter-2: Network Theorems
- Chapter-3: Network Functions
- Chapter-4: Two port Networks
- Chapter-5: Passive Network Synthesis
- Chapter-6: Duality
- Chapter-7: Filters
- Chapter-8: Bode Plot


## Author


**Ashfaq Husain**

Mr. Ashfaq Husain, formerly Reader in Electrical Engineering, University Polytechnic, Faculty of Engineering and Technology, Aligarh Muslim University, Aligarh, has teaching experience of more than forty years and is the author of various successful textbooks. "

**Haroon Ashfaq**

Haroon Ashfaq is Assistant Professor, Department of Electrical Engineering, Jamia Millia Islamia, New Delhi. He is did his B.Tech in Electrical Engineering, M.Tech in Power Systems & Drives and has a doctorate in Electric Drives from Aligarh Muslim University, Aligarh. He has co-authored successful books which includes Network Analysis & Synthesis. He also has several international and national research publications to his credit.



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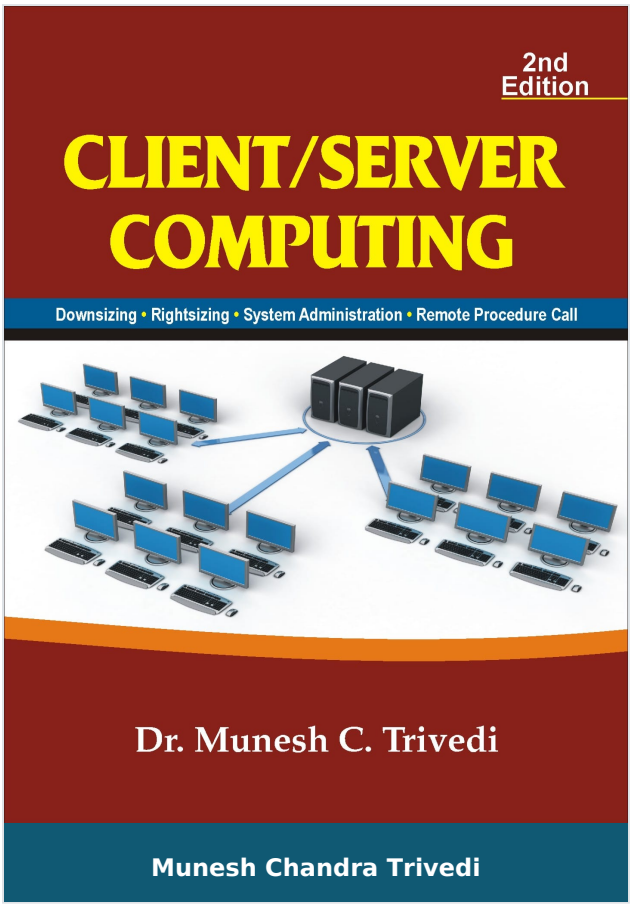


# Client/Server Computing

| | |
|---|---|
| **Author :** | Munesh Chandra Trivedi |
| **ISBN 13 :** | 978-93-80016-60-3 |
| **ISBN 10 :** | 9380016603 |
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| **Pages :** | 268 |
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| **Year :** | 2013 |
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- Client/Server Computing
- Components of Client/Server Application
- Client/Server System Development
- Client/Server System Development Software
- Network Interfaces
- Client/Server Systems Development
- Client/Server Training Concepts
- Short Questions & Answers
- Multiple Choice Questions & Answers
- Client/Server Computing Question Bank
- Examination Papers


## 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 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

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(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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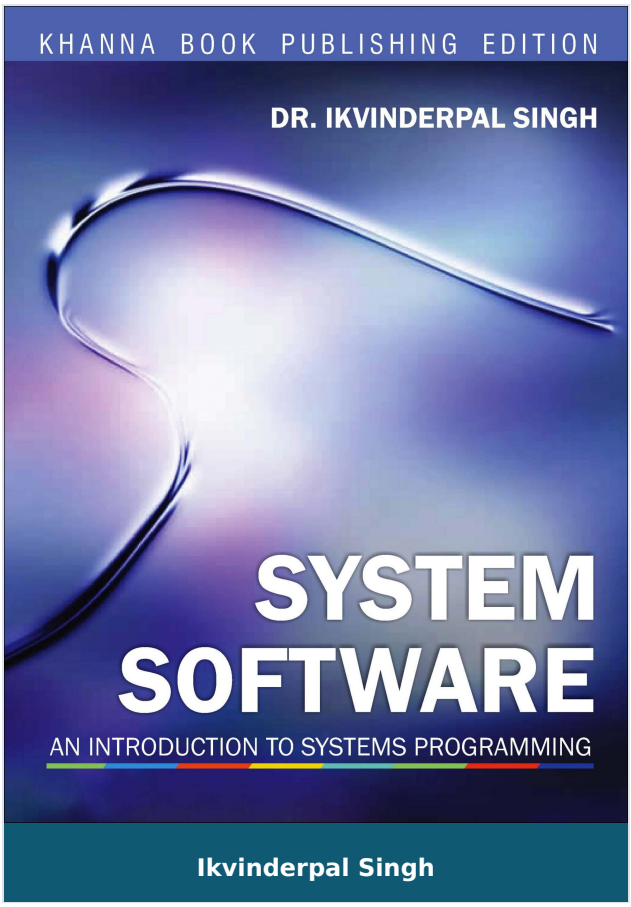


# System Software

| | |
|---|---|
| **Author :** | Ikvinderpal Singh |
| **ISBN 13 :** | 978-93-81068-71-7 |
| **ISBN 10 :** | 9381068712 |
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## Product Description

Fundamental concepts are introduced in simple terms, Numerous examples are included to illustrate concepts and techniques. The sequence of topics is well planned to provide a seamless transition from design to implementation. Fundamental concepts and basic design of each type of software in a machine-independent way. With each chapter, the continuity of topics is excellent. The figures appropriately enhance and amplify the topics. The exercises can be found at the end each chapter. Other sections are devoted to DBMS, text editor and interactive debugging systems.

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- Introduction
- Programming Language
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- Compilers
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- Operating System
- System Software Tools


## Author

**Ikvinderpal Singh**

Dr. Ikvinderpal Singh is an Assistant Professor at Trai Shatabdi Guru Gobind Singh Khalsa college Amritsar, bringing 17+ years of academic leadership and research experience to the field of computer science. A Gold Medalist in B.Sc. IT, with an MCA (Distinction) and a Ph.D. in Neural Networks and Image Processing, he is known for blending rigorous research with practical innovation. A prolific academic creator, he has authored 37 books, published 82+ research papers, and designed 100+ industry-aligned skill-development courses. His expertise extends to doctoral evaluation, supervision, and active participation on 100+ editorial and review boards worldwide.

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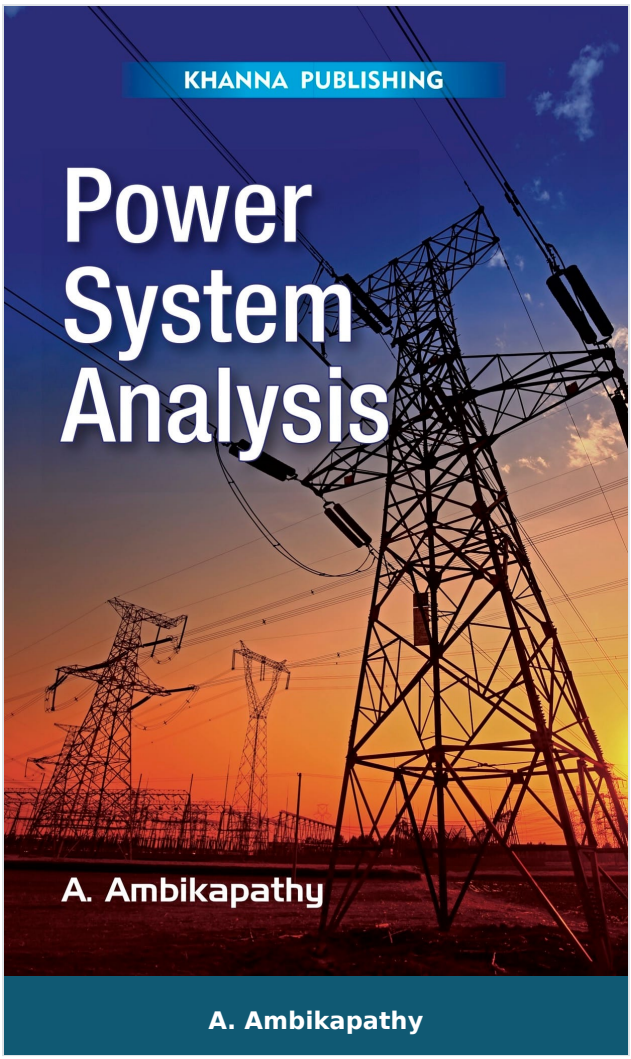


A. Ambikapathy

# Power System Analysis

| | |
|---|---|
| **Author :** | A. Ambikapathy |
| **ISBN 13 :** | 978-93-80016-81-8 |
| **ISBN 10 :** | 9380016816 |
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## Product Description

The textbook on "Power System Analysis" has been written for undergraduate students of electrical engineering (EE) electrical and electronics engineering(EEE) departments. This material which is presented in this book will be very useful to the students for understandings well as from examination point of view. A number of solved and unsolved problems (with answer)have been included in each chapter. Short question and answers are provide  for every chapter so that the students will get benefit of it. The mathematical details and qualitative discussion has been followed throughout the book. The author will welcome criticisms of the text and will acknowledge comments pertaining to the text and suggestions for the improvement of this book will be most welcome.

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## Table Of Contents


- Representation of Power System Components
- Unsymmetrical Fault Analysis
- Load Flows
- Power System Stability
- Traveling Waves


## Author

**A. Ambikapathy**

A. Ambikapathy currently working as an assistant professor in " Galgotia College of Engineering and Technology " holds M. Tech degree. She has presented five papers in national level conferences. She worked under three different universities and having ten years of teaching experience.

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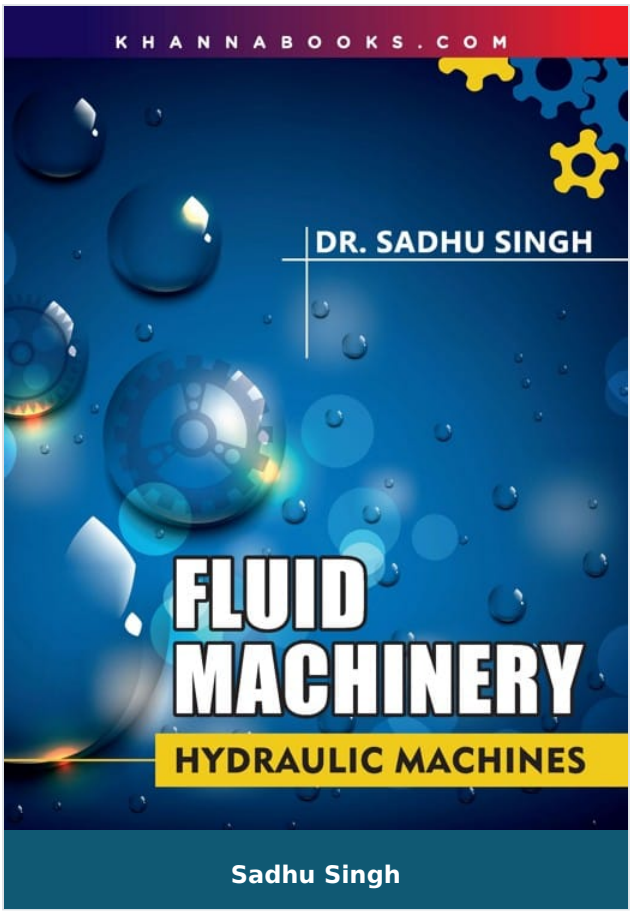


# Fluid Machinery (Hydraulic Machines)

| | |
|---|---|
| **Author :** | Sadhu Singh |
| **ISBN 13 :** | 978-93-82609-28-5 |
| **ISBN 10 :** | 9382609288 |
| **E-ISBN 13 :** | 978-93-82609-28-5 |
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## Product Description

This is a text book for B.E./ B. Tech. students of all Indian Universities and Institutions. The book contains fifteen chapters. The book contains a large number of solved and unsolved problems. The special features of the book are: summery, Review Question, Multi-choice Questions and end of chapter numerical problems.

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- Francis Turbine
- Kaplan Turbine
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- Governing, Selection and Performance of Hydraulic Turbines
- Reciprocating Pumps
- Centrifugal Pump
- Fluid Devices and Systems
- Fluid Laboratory Practice
- Conventional Questions From IES
- Multi-Choice Questions From IES
- Subject Index


## Author

**Sadhu Singh**

Dr. Sadhu Singh is a retired professor of Mechanical Engineering of Govind Ballabh Pant university of Agriculture & Technology, Pantnagar. He graduated in Mechanical Engineering with Hons, from Punjab University, Chandigarh, M.Sc. (Mechanical Design & Production Engineering) and Ph.D. from Kurukshetra University, Kurukshetra. His teaching experience spans 15 years at Regional Engineering College (now NIT), Kurukshetra and

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19 years at Pantnagar University. He has been Professor & Head, Mechanical Engineering Departmentand Dean, Faculty of Engineering & Technology at Pantnagar. He has been Director (Colleges). Punjab Technical University, Jalandhar.

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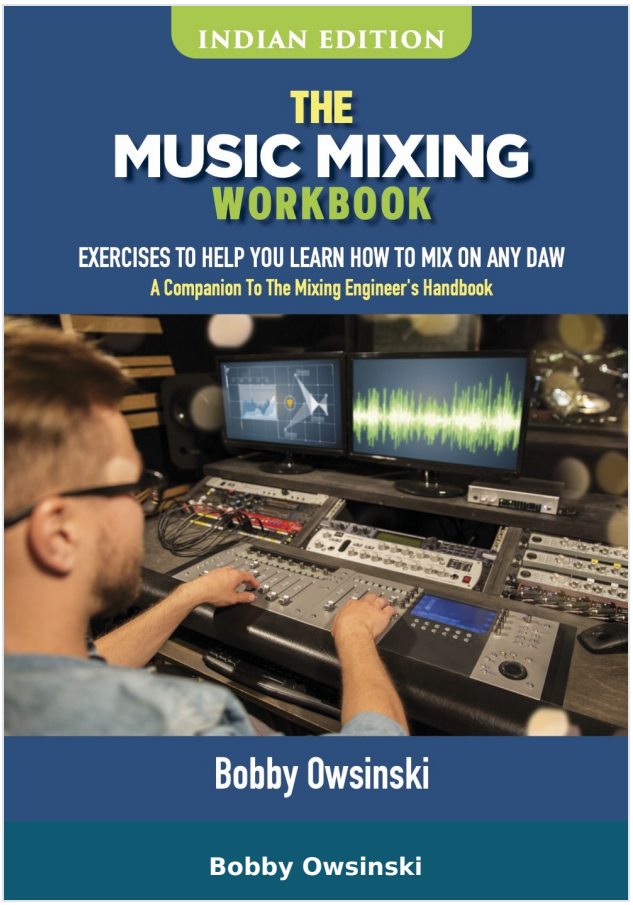


# The Music Mixing Workbook (Indian Edition)

| | |
|---|---|
| **Author :** | Bobby Owsinski |
| **ISBN 13 :** | 978-93-55389-76-3 |
| **ISBN 10 :** | 9355389760 |
| **E-ISBN 13 :** | 978-93-55389-76-3 |
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| **Condition Type :** | New |
| **Country Origin :** | India |

## Product Description

If you’re new to mixing and aren’t sure what to do, or your mixes aren’t anywhere near where you’d like them to be, then The Music Mixing Workbook is exactly what you need. Written by Bobby Owsinski, the author of the award winning and highly acclaimed Mixing Engineer’s Handbook (the standard reference book for mixing in schools around the world), the Music Mixing Workbook features hands-on exercises that teach you all the things that make a mix sound great, as well as all the things to avoid along the way.

Designed to meet the needs of anyone relatively new to or confused about the once mysterious process of mixing audio, the book features 175 different exercises covering every operation needed to complete a modern sounding professional mix with tips and tricks that come directly from the A-list pro mixers.

The easy-to-grasp exercises can be used with any DAW application or hardware console, and any genre of music.

Topics covered include:

. DAW signal

. Basic monitoring setup

. Balancing mix elements

. Multiple EQ techniques

. Compression, gates, and saturators

. Reverb, delay and modulation effects

. Master mix techniques, and much more

Although the reader can use the Workbook with any current songs they may be working on, most of the exercises are built around professionally recorded tracks that are

available to download for free.

The Music Mixing Workbook is meant to work in conjunction with Bobby’s popular Mixing Engineer’s Handbook to provide practical training behind the many concepts involved with mixing.

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- Planning
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- Using The EQ
- Adding Reverb
- Adding Delay
- Modulation Effects
- Creating Interest
- The Master Mix
- Building The Mix in Order
- Glossary


## Author

**Bobby Owsinski**

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Bobby Owsinski is one of the bestselling authors in the music industry with 24 books that are staples in audio recording, music and music business programs in colleges around the world, including the Mixing Engineer’s Handbook, The Music Producer’s Handbook, Music 4.0: A Survival Guide for Making Music in the Internet Age, and more. He’s also a contributor to Forbes covering the new music business, his popular production and music industry blogs are over 8 million visits, and he’s appeared on CNN and ABC News as a music branding and audio expert. Visit BobbyOwsinskiBlog.com, his music industry blog at Music3Point0.com, his podcast at BobbyOInnerCircle.com, and his website at BobbyOwsinski.com.

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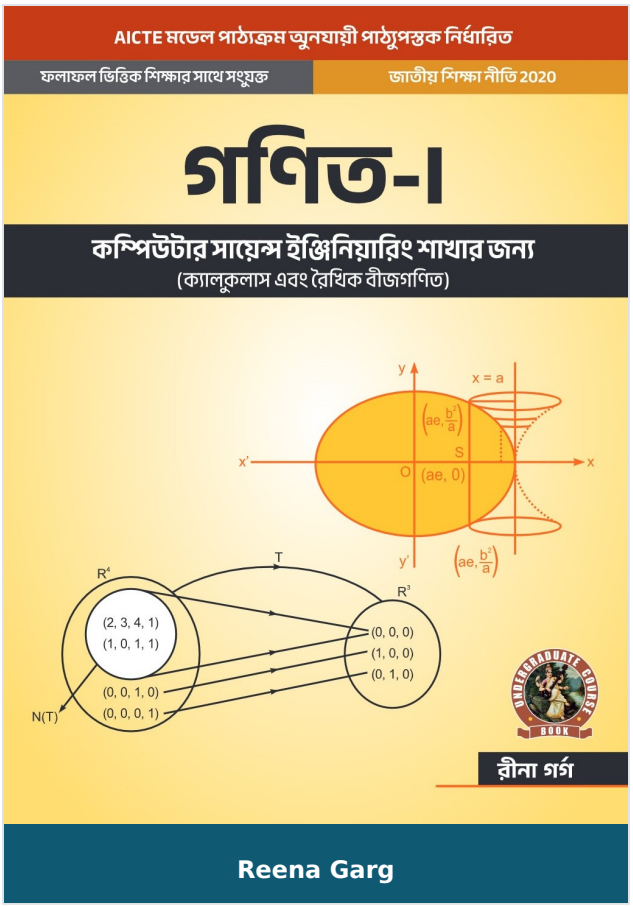


# Mathematics-I (Calculus and Linear Algebra) For Computer Science Engineering Branches

| | |
|---|---|
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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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- Guidelines for Students
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- Matrices.
- Vector Spaces I.
- Vector Spaces II.
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- CO and Po Attainment Table.


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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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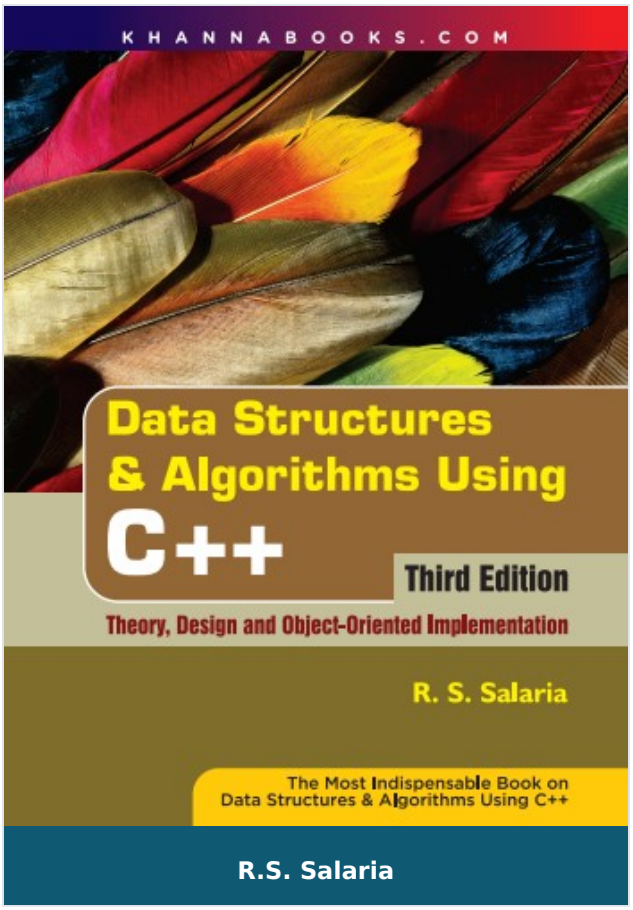


# Data Structures & Algorithms Using C++

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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

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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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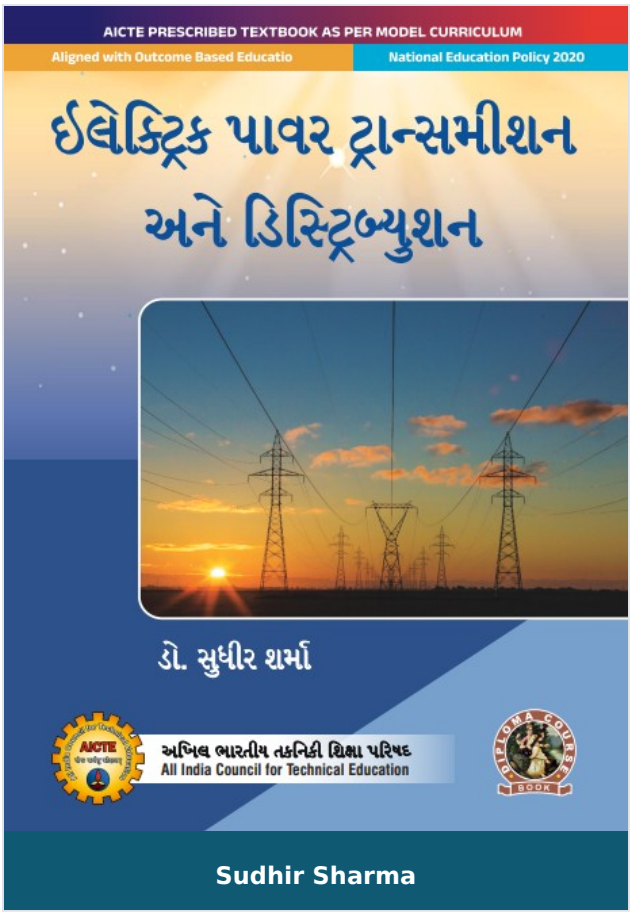


# Electric Power Transmission and Distribution

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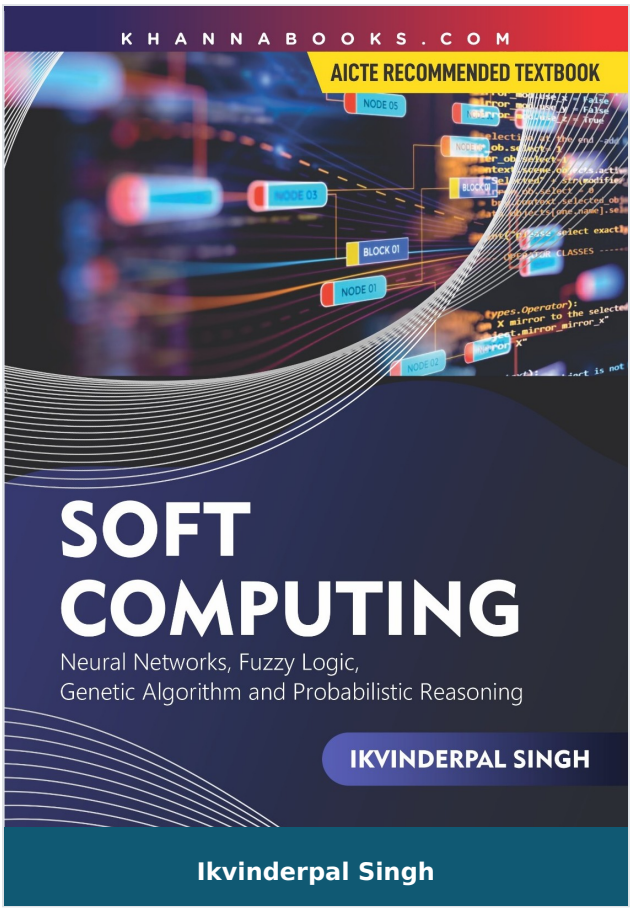


# Soft Computing

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## Product Description

This book is meant for a wide range of readers, especially college and university students wishing to learn basic as well as advanced processes and techniques in Soft Computing. It can also meant for Programmers who may be involved in programming based on the soft computing applications. Modern aspects of soft computing have been introduced from the first principles and discussed in an easy manner, So that a beginner can grasp the concept of neural networks fuzzy, genetic algorithm and probabilistic reasoning, each chapter contains solved example problems and exercise problems.

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- Present architecture and algorithm of every net in enough detail
- Provides examples of simple applications
- Gives mathematical development when it provides a guide to proper implementation of net
- Covers all supervised and unsupervised learning methods
- Discusses on the introduction to classical sets and fuzzy sets
- Fundamental idea on classical relations and fuzzy arithmetic explains in a lucid manner
- Detailed explanation of fuzzy rules is given
- Gives the architecture, operation and various applications of fuzzy logic systems
- Concepts of neuro-fuzzy and genetic algorithm are included
- Detailed analysis of each and every type of probability is explained with the help of examples
- Demonstrates the concept of fuzzy logic and probability.

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This book will be useful for student of BE (Computer/Electronics), B. Tech, ME(Computer/Electronics), M. Tech, MCA, BCA, M.Sc., B.Sc., and also to students pursuing A/B/C-level course of DOEACC.

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