

Linear Integrated Circuit

Author :	B. T. Krishna
ISBN 13 :	978-93-55382-90-0
ISBN 10 :	9355382901
E-ISBN 13 :	978-93-55382-90-0
Edition :	First
Pages :	168
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 310.00
Categories :	AICTE Prescribed Textbooks, English Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Linear Integrated Circuit

The production of circuits in integrated form dates from about 195o’s, the technology made its first impact in the field of digital electronics and it is here that the most amazing improvements have taken place. Attention has naturally been devoted to the linear devices which lend themselves to an economic utilization the IC process because of their potentially large volume production requirements. Keeping up with the latest tools and methods in a field that develops as quickly as electronic measurements is challenging. This book is an attempt to address this problem by showcasing the linear integrated circuits components best applicable to the functional operations required by signal measuring and processing systems.

The entire book emphasizes doing rather than just reading. The use of linear integrated circuits has allowed the development of electronic systems that were previously impossible with discrete components due to their increased complexity and operational precision. Using integrated circuits and modules almost always results in better cost/performance, even in systems that previously relied on discrete components. There are a wide variety of uses for operational amplifiers, and the author has covered them in beginning. The rest of the book covers more modern topics including phase-locked loops, waveform generators, timers, four-quadrant multipliers, and monolithic integrated circuits modulators. This book explains how these devices work and how they can be used to fulfil a variety of tasks in signal monitoring and processing setups. Each chapter ends with a set of numerical exercises.

Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units Outcomes.

Khanna Publishing House
4C/4344, Ansari Road, Daryaganj, New Delhi-110002
Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR code for E-resources, QR code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a ‘know more’ section is also provided in each unit to extend the learning beyond syllabus.
- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
- Solved and unsolved problems including numerical examples are solved with systematic steps.

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Table Of Contents

- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Guidelines for Teachers
- Guidelines for Students
- Abbreviations and Symbols
- List of Figures
- IC Fabrication and Circuits Configuration for Linear IC
- Applications of Operational Amplifiers
- Analog Multiplier And PLL
- Analog to Digital and Digital to Analog Converters
- Waveform Generators and Special Function IC’s
- References For Further Learning
- CO and PO Attainment Table
- Index

Author

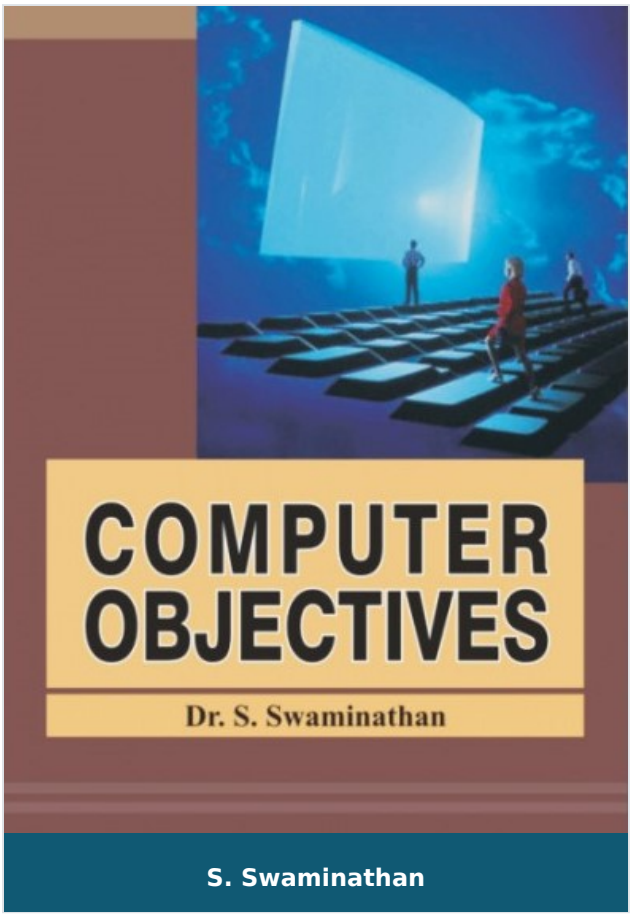
B. T. Krishna

Dr. B. T. Krishna Professor, Jawaharlal Nehru Technological University Kakinada, Kakinada, Andhra Pradesh, India

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320



Computer Objectives

Author :	S. Swaminathan
ISBN 13 :	978-81-90675-88-8
ISBN 10 :	8190675885
E-ISBN 13 :	978-81-90675-88-8
Edition :	1
Pages :	406
Type of book :	Physical
Year :	2014
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 350.00
Categories :	OBJECTIVE TYPE BOOKS, Book Store
Condition Type :	New
Country Origin :	India

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Product Description

This book has originated from the fact that students who are preparing for various different examinations like GATE, BARC, NTPC, ONGC, HAL,C-DOT,IOCL etc., have to refer to many different books for good and conceptual objective questions in Computer Science & Eng. stream keeping above examinations in mind the book has been organized to provide students the best.

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Table Of Contents

- Digital
- Computer Architecture
- Operating Systems
- Data Structures
- Microprocessor
- Automata Theory
- Computer Networks
- Compilers
- DBMS
- C Language
- Object Oriented Programming with C++
- Probability Theory
- Discrete Mathematics
- Matrix Algebra
- Combinatorics
- Numerical Analysis
- Graph Theory
- Gate Papers with Solutions

Author

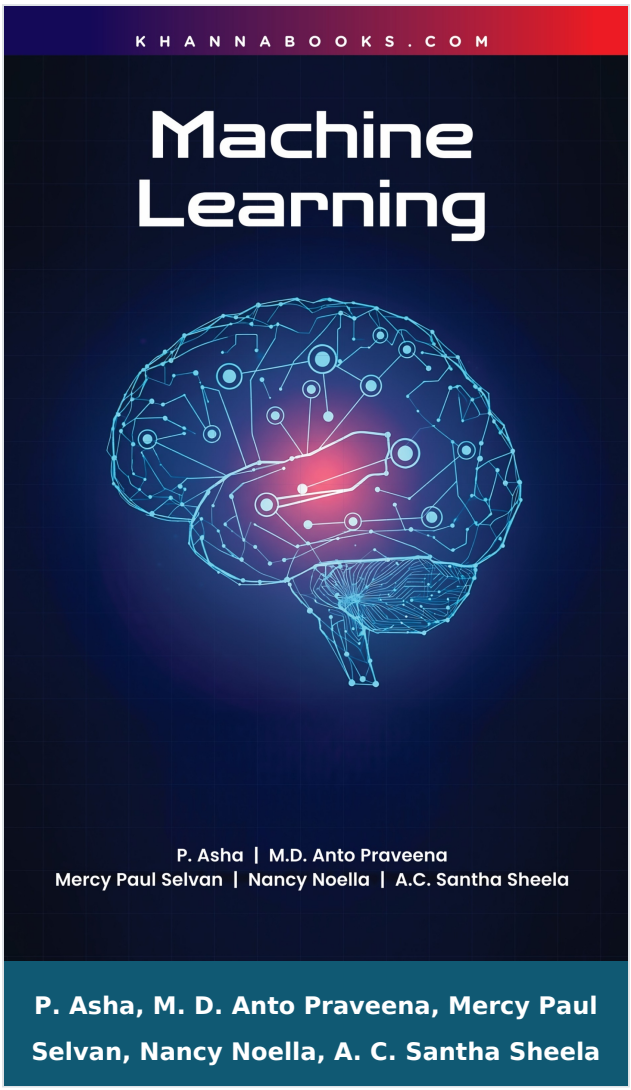
S. Swaminathan

S. Swaminathan

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320



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
ISBN 13 :	978-93-55382-54-2
ISBN 10 :	9355382545
E-ISBN 13 :	978-93-55382-54-2
Edition :	First
Pages :	142
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 248.00
Categories :	Computer Science Engineering, New Arrivals, Book Store, Sathyabama Series
Condition Type :	New
Country Origin :	India

Khanna Publishing House
4C/4344, Ansari Road, Daryaganj, New Delhi-110002
Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

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.

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Table Of Contents

- Introduction to Machine Learning
- Decision Theory
- Clustering and Regression
- Multilayer Perceptions
- Local Models

Author

P. Asha

P. Asha

M. D. Anto Praveena

M. D. Anto Praveena

Mercy Paul Selvan

Mercy Paul Selvan

Nancy Noella

Nancy Noella R. S., Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology

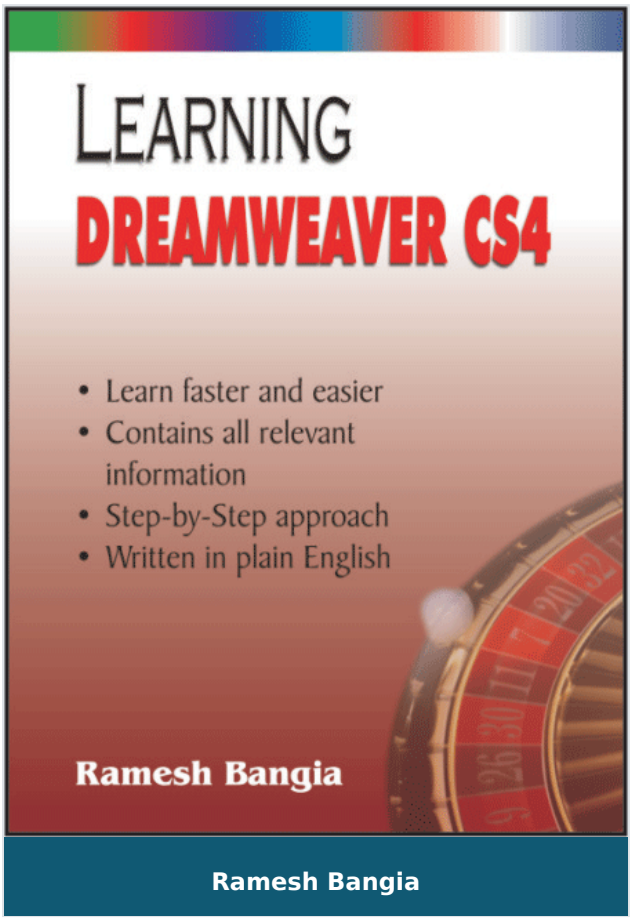
A. C. Santha Sheela

A. C. Santha Sheela

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320



Ramesh Bangia

Learning Dreamweaver CS4

Author :	Ramesh Bangia
ISBN 13 :	978-93-80016-38-2
ISBN 10 :	9380016387
E-ISBN 13 :	978-93-80016-38-2
Edition :	1
Pages :	182
Type of book :	Physical
Year :	2010
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 225.00
Categories :	Book Store, Learning Series, BASIC COMPUTER BOOKS
Condition Type :	New
Country Origin :	India

Product Description

Learning of a software is both easy and difficult. It depends upon what level you planning to learn. If you are learning only for the working use, then it is very easy. But, when you try to go deep into it, then you realise how difficult it is to master it. Freamweave CS4 is such a vast subject that it will take a lot of time to understand it fully. This book has been written in mind to make you aware of the options available in the software and how they can be used. It is like telling the child about the steps and stairs. You are the one who is to climb the stair. This book will just guide you how to use the stairs.

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Table Of Contents

- Introduction to Dreamweaver CS4
- Creating a New Page in Dreamweaver CS4
- Adding Graphics and Multimedia
- Working with Tables in Dreamweaver CS3
- Working with Forms in Dreamweaver CS3
- Working with Frames in Dreamweaver CS4
- Working with Stylesheets in Dreamweaver CS4
- Creating and Applying Templates
- More Commands of Dreamweaver CS4
- Integrating with Other Software
- Keyboard Shortcuts of Dreamweaver CS4
- Questions

Author

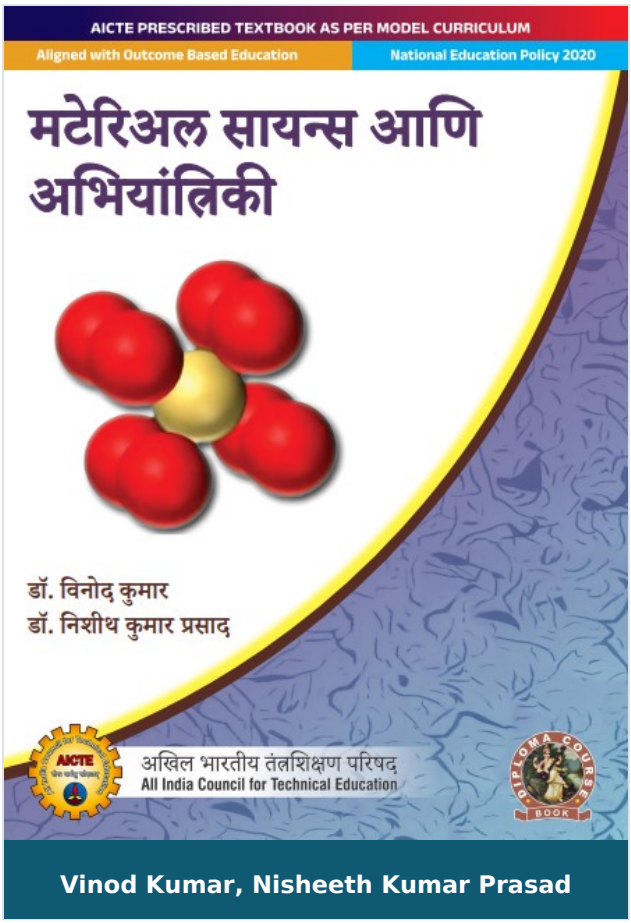
Ramesh Bangia

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.

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320



Material Science & Engineering

Author :	Vinod Kumar, Nisheeth Kumar Prasad
ISBN 13 :	978-93-55382-91-7
ISBN 10 :	935538291X
E-ISBN 13 :	978-93-55382-91-7
Edition :	First
Pages :	216
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 348.00
Categories :	AICTE Prescribed Textbooks, Marathi Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Material Science & Engineering

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Author

Vinod Kumar

Dr. Vinod Kumar Assistant Professor and Former Head, Department of Metallurgical Engineering and Materials Science, IIT Indore, Simrol, Khandwa Road, Indore -453552, Madhya Pradesh Dr.

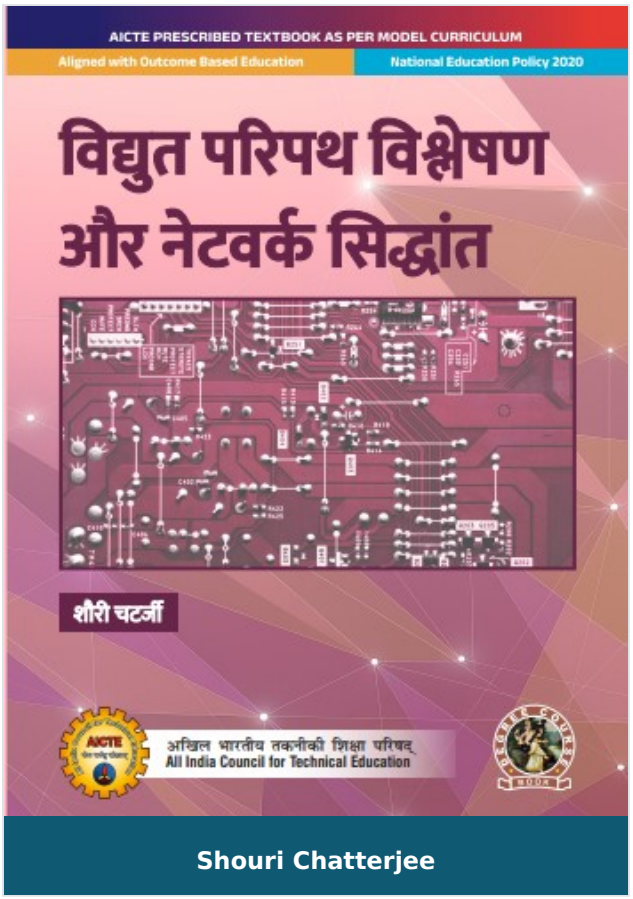
Nisheeth Kumar Prasad

Dr. Nisheeth Kumar Prasad Assistant Professor, Department of Metallurgical Engineering and Materials Science, IIT Indore, Simrol, Khandwa Road, Indore-453552.

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320



Electrical Circuit Analysis and Network Theory

Author :	Shouri Chatterjee
ISBN 13 :	978-93-55389-85-5
ISBN 10 :	935538985X
E-ISBN 13 :	978-93-55389-85-5
Edition :	First
Pages :	328
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 498.00
Categories :	AICTE Prescribed Textbooks, Hindi Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Electrical Circuit Analysis and Network Theory

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Author

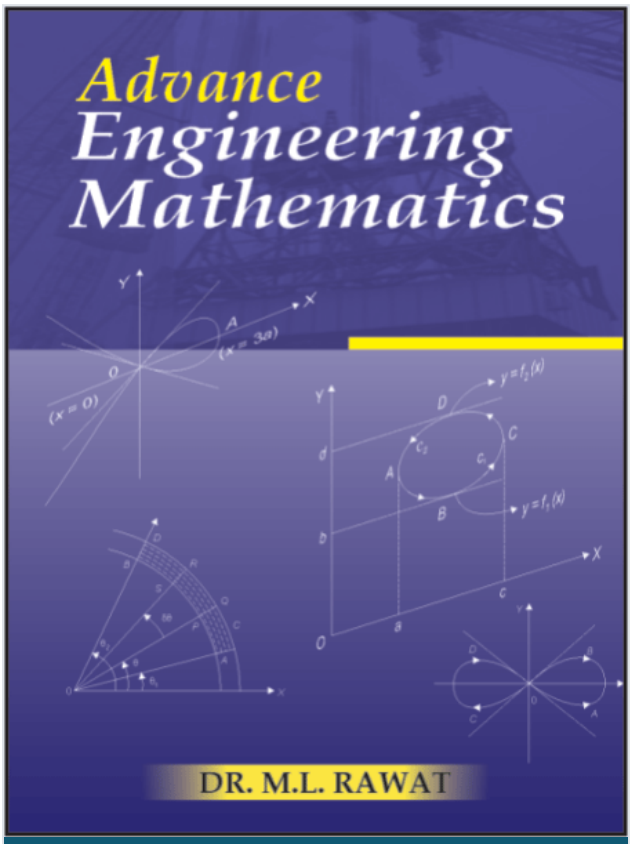
Shouri Chatterjee

Prof. Shouri Chatterjee Department of Electrical Engineering Indian Institute of Technology (IIT) Delhi

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320



M.L. Rawat

Advance Engineering Mathematics

Author :	M.L. Rawat
ISBN 13 :	978-81-90675-87-1
ISBN 10 :	8190675877
E-ISBN 13 :	978-81-90675-87-1
Edition :	1
Pages :	1575
Type of book :	Physical
Year :	2014
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 595.00
Categories :	Book Store, APPPLIED SCIENCES & HUMANITIES
Condition Type :	New
Country Origin :	India

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Product Description

Solutions of Algebraic Equations and curve-fitting, Linear Algebra: Determinants, Matrices, Determinants and Matrices, Vectors and 3-Dimensional Analysis Geometry, Ordinary Differentiation and Its Applications, Partial Differentiation and Its Applications, Single Integrals with Applications Multiple Integrals with Their Applications, Vector Calculus, Convergence and Divergency of Infinite Series, Fourier Series, Ordinary Differential Equations of Order One, Applications of Differential Equations of First Order, Higher Order Linear Differential Equations with Constant Coefficients, Applications of Linear Differential Equations, Differentiation Equations of Second Order with Variable Coefficients and of Some other types, Special Solution of Differential Equations and Special Functions, Partial Differential Equations, Applications of Partial Differential Equations, Complex Variable, Laplace Transform Fourier Transforms, The Z- Transform, Statistics and Probability, Finite Differences and Interpolation Methods, Difference Equations, Solution of Algebraic Equations by Numerical Methods, Numerical Solutions of Ordinary Differential Equations, Numerical Solution of Partial Differential Equations, Linear Integral Equations, Linear Programming and Transportation and Assignment Problems, Calculus of Variation, tensors, Spherical Trigonometry.

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Table Of Contents

- Solutions of Algebraic Equations and curve-fitting,
- Linear Algebra:
- Determinants,
- Matrices, Determinants and Matrices,
- Vectors and
- Dimensional Analysis Geometry,
- Ordinary Differentiation and Its
- Applications,
- Partial Differentiation and Its Applications,
- Single
- Integrals with Applications Multiple Integrals with Their Applications,
- Vector Calculus,
- Convergence and Divergency of Infinite Series,
- Fourier
- Series,
- Ordinary Differential Equations of Order One,
- Applications of
- Differential Equations of First Order,
- Higher Order Linear Differential
- Equations with Constant Coefficients,
- Applications of Linear
- Differential Equations,
- Differentiation Equations of Second Order with

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

- Variable Coefficients and of Some other types.
- Special Solution of
- Differential Equations and Special Functions,
- Partial Differential
- Equations,
- Applications of Partial Differential Equations,
- Complex
- Variable,
- Laplace Transform Fourier Transforms,
- The Z- Transform,
- Statistics and Probability,
- Finite Differences and Interpolation
- Methods,
- Difference Equations, Solution of Algebraic Equations by
- Numerical Methods,
- Numerical Solutions of Ordinary Differential
- Equations,
- Numerical Solution of Partial Differential Equations,
- Linear
- Integral Equations,
- Linear Programming and Transportation and Assignment
- Problems,
- Calculus of Variation, tensors,
- Spherical Trigonometry

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Author

M.L. Rawat

Dr. M.L. Rawat, born in poor family did his M.Sc in first division in 1957, and PhD in Hydrodynamics in 1973 from the University of Rajasthan and became a Lecturer of Mathematics at Maharaja's College, Jaipur. During his service , he served at various government colleges in Rajasthan and taught M.Sc classes at Jaipur, Dungar College, Bikaner and Government College, Ajmer. He also served as Degree College Principal for 6 Years and Post Graduate college principal for 5 Years. Currently, he is working as professor of Mathematics at Jaipur Engineering College & Research Centre (JECRC), Jaipur.

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320



AI Shakti, AI for Bharat (Coloured Addition)

Author :	T. G. Sitharam, Mahesh Verma, Yogi Kochhar
ISBN 13 :	978-93-74541-81-4
ISBN 10 :	9374541815
E-ISBN 13 :	978-93-74541-81-4
Edition :	First
Pages :	162
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 949.00
Categories :	New Arrivals, Emerging Technologies, Book Store
Condition Type :	New
Country Origin :	India

Product Description

AI Shakti, AI for Bharat (Colour)

AI Shakti presents a bold and pragmatic wireframe for nations seeking to integrate artificial intelligence seamlessly into education, enterprise, governance, and daily life. The authors bring together the rare convergence of academic depth, institutional experience, and visionary imagination.

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Table Of Contents

- Massages From
- AI Shakti
- About The Authors
- Executive Summary
- Preface
- Chessboard, Deep mind & India
- Dawn Of the AI Age
- 2A 5 – Tier Architecture for Capacity Building
- Tier 0: AI Foundations for Schools
- Tier 1: AI Literacy For ALL
- Tier 2: Applied AI Skills For Employability
- Tier 3: Msmes: The Backbone of India
- Tier 4: Deep-Tech AI Telent Pipeline
- Implementing The 5-Tier System at Scale
- Tools, Templates and Worksheets
- The Future of India with Alforall
- The Vault of Knowledge
- When the Mind Melts

Author

T. G. Sitharam

T. G. Sitharam is a civil engineer, professor at IISc Bangalore, former director at IIT Guwahati. Currently, he is serving as Chairman of the All India Council for Technical

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

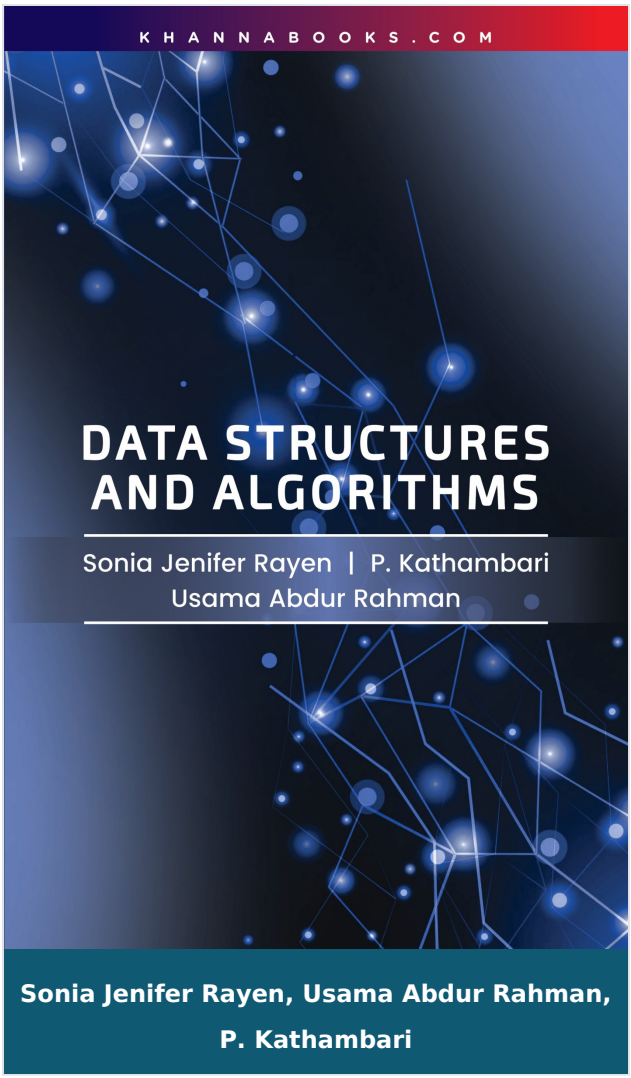
Education, (AICTE) from 1 December 2002 onwards. He is known for his works in the fields of rock mechanics, rock engineering geotechnical earthquake engineering. He is an elected fellow of Indian Geotechnical Society, Institution of Engineers (India) and American Society of Civil Engineers.

Mahesh Verma

Prof. T G Sitharam : - Professor sitharam, chairman, AICTE, a distinguished educator & policy influencer, has long championed the modernization of India’s knowledge architecture. Elite member of Top 2% scientists in the world by Stanford Ranking. Prof. (Dr) Mahesh Verm a: - professor Verma, Padma Shri, Vice Chancellor at Guru Gobind Singh Indraprastha University. A brilliant & rare Doctor with 4 fellowships from the Royal College of surgeons: Ireland, Wales, Scotland and England Yogi Kochhar : - Yogi, an AI FUTURIST, works across sectors in US, UK and India to operationalize AI adoption at scale: his ability to simplify complex ideas and translate them into implementable constructs gives this book its unique clarity and force. Author, Poet Golfer, Trekker. Their collaboration results in a seminal work that charts not just what AI can do, but what it must do; strengthen institutions, empower citizens, and prepare societies for an era of profound transformation.

Yogi Kochhar

Yogi Kochhar : - Yogi, an AI FUTURIST, works across sectors in US, UK and India to operationalize AI adoption at scale: his ability to simplify complex ideas and translate them into implementable constructs gives this book its unique clarity and force. Author, Poet Golfer, Trekker. Their collaboration results in a seminal work that charts not just what AI can do, but what it must do; strengthen institutions, empower citizens, and prepare societies for an era of profound transformation.



Data Structures and Algorithm

Author :	Sonia Jenifer Rayen, Usama Abdur Rahman, P. Kathambari
ISBN 13 :	978-93-55384-75-1
ISBN 10 :	9355384750
E-ISBN 13 :	978-93-55384-75-1
Edition :	First
Pages :	188
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 298.00
Categories :	Computer Science Engineering, New Arrivals, Book Store, Sathyabama Series
Condition Type :	New
Country Origin :	India

Khanna Publishing House
4C/4344, Ansari Road, Daryaganj, New Delhi-110002
Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Product Description

In the rapidly evolving landscape of computer science and technology, a foundational mastery of data structures and algorithms is paramount for efficient problem-solving and system design. This essential textbook is specifically designed to offer Computer Science, Information Technology, and allied students, along with educators and aspiring programmers, a broad and easy-to-understand exposition of these key principles.

The book's core purpose is to build a strong, clear, and practical understanding of fundamental concepts, integrating theoretical principles with applied implementation so readers can not only grasp the inherent logic but also implement solutions in real-world computing environments. The text systematically covers traditional structures like Arrays, Linked Lists, Stacks, and Queues, alongside complex non-linear structures such as Trees and Graphs. It then advances to essential algorithm design techniques, including Divide and Conquer, Greedy Algorithms, and Dynamic Programming, and comprehensively covers Searching and Sorting methods.

A key highlight is the dedicated focus on Algorithm Analysis, thoroughly explaining concepts like Time and Space Complexity and Big O notation to ensure readers can develop efficient, optimized solutions. Maintaining an academic yet friendly tone, the book ensures clarity by breaking down complex concepts, supplemented with numerous diagrams, real-life examples, and code snippets, primarily using Python for readability. This text is an indispensable guide for establishing the analytical and coding skills necessary for academic and professional success.

Salient Features:

• Foundational DS: Systematically covers primitive and non-primitive structures like arrays, linked lists, stacks, queues, trees, and graphs, forming the core of computing.

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

• Performance Analysis: Explains the crucial concepts of Big O notation, time, and space complexity analysis, enabling the design of optimized and efficient coding solutions.

• Advanced Techniques: Details advanced algorithm design paradigms, including Divide and Conquer, the Greedy approach, Dynamic Programming, and Backtracking for complex problem-solving.

• Practical Coding: Adopts a hands-on approach with numerous code snippets, examples, and diagrams, utilizing Python for clear, readable implementation of concepts.

• Search & Sort Mastery: Provides clear, step-by-step coverage of fundamental operations like linear search, binary search, and various efficient sorting methods (Quick, Merge, Heap).

• Applied Solutions: Explores real-world applications of data structures, such as polynomial manipulation via lists and shortest path problems using Dijkstra's algorithm.

• Conceptual Clarity: Establishes a strong basis by thoroughly defining and differentiating between data, information, and Abstract Data Types (ADT) before implementation.

• Student Focused: Includes chapter-end exercises and problems to reinforce learning, making it an ideal, syllabus-aligned guide for academic and professional preparation.

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Author

Sonia Jenifer Rayen

Sonia Jenifer Rayen, Associate Professor, Dept of CSE, Sathyabhama Institute of Science and Technology

Usama Abdur Rahman

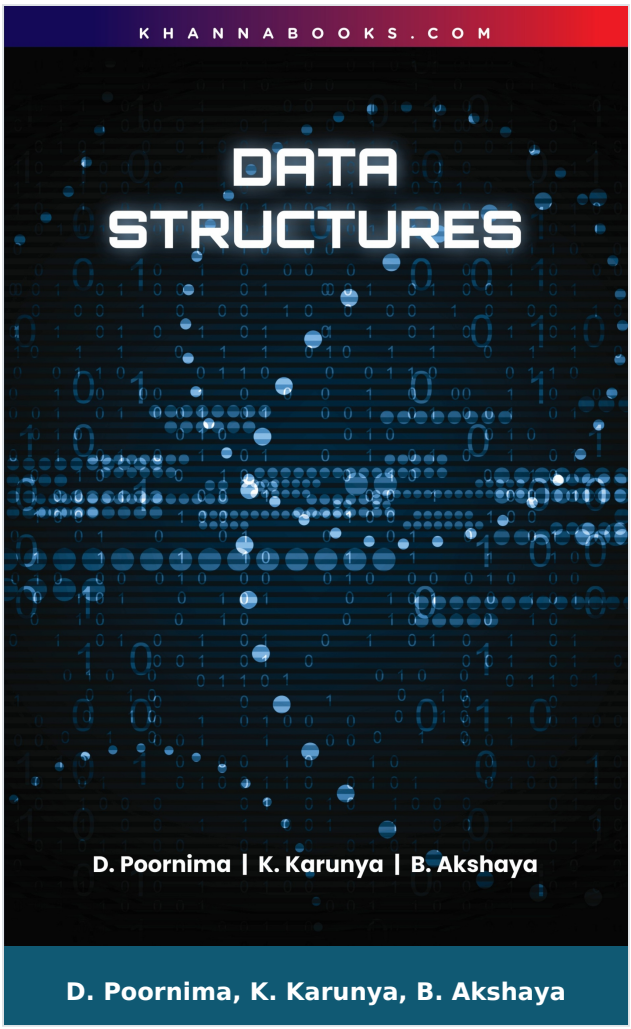
Usama Abdur Rahman

P. Kathambari

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320



Data Structures

Author :	D. Poornima, K. Karunya, B. Akshaya
ISBN 13 :	978-93-55385-39-0
ISBN 10 :	9355385390
E-ISBN 13 :	978-93-55385-39-0
Edition :	First
Pages :	216
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 298.00
Categories :	Computer Science Engineering, New Arrivals, Book Store, Sathyabama Series
Condition Type :	New
Country Origin :	India

Khanna Publishing House
4C/4344, Ansari Road, Daryaganj, New Delhi-110002
Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Product Description

This comprehensive textbook offers an indispensable foundation in data structures, the core discipline for efficient computing and algorithm design. It is explicitly designed to empower students, software developers, and computer science professionals with the ability to organize, manage, and process data optimally, thereby reducing computational overhead and enhancing application performance.

The book systematically guides readers through fundamental concepts, beginning with linear structures like Arrays, Linked Lists, Stacks, and Queues, and progresses to complex, non-linear structures such as Trees and Graphs. A strong emphasis is placed on the dual goals of reducing time complexity and optimizing memory storage, which are vital for developing modern, scalable software. Readers will gain practical proficiency through units dedicated to Search and Sorting Techniques and critical graph algorithms like Dijkstra's and Minimum Spanning Trees. By blending academic rigor with extensive real-world Case Studies and practical programming examples in C, this text ensures that learners not only understand how these structures work, but also why they are the backbone of modern applications in areas like databases, AI, and network optimization.

Salient Features:

• Fundamental Concepts: Provides a clear introduction to data structures, covering classifications (linear vs. non-linear) and the core need for optimizing both time and space complexity.

• Advanced Structures: Thoroughly covers complex, non-linear structures like Binary Trees, BSTs (Binary Search Trees), and even AVL Trees, detailing their implementation and use in storage and retrieval.

• Graph Theory: Explores Graphs with depth, covering representation using Adjacency Matrix and List, and essential traversals like Breadth-First Search (BFS) and Depth-First

Khanna Publishing House
4C/4344, Ansari Road, Daryaganj, New Delhi-110002
Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Search (DFS).

• Pathfinding Algorithms: Dedicated focus on practical solutions with algorithms for Minimum Spanning Trees (Kruskal's/Prim's) and Shortest Paths (Dijkstra's, Bellman-Ford, Floyd-Warshall).

• Algorithm Analysis: Offers a comprehensive unit on Search and Sorting Techniques (Quick Sort, Merge Sort, Heap Sort), with detailed analysis comparing the efficiency of various algorithms.

• Practical Coding: Includes numerous Solved Problems and C programming code examples for all major operations (insertion, deletion, traversal), enabling hands-on implementation skills.

• Real-World Applications: Features focused Case Studies throughout, illustrating how structures like Queues and Trees are utilized in practical scenarios such as hospital queue optimization and network routing.

• ICT Integration: Recommends specific digital tools, including online visualizers (like VisuAlgo) and competitive programming platforms (like LeetCode), to enhance interactive and application-based learning.

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Table Of Contents

- Introduction to Data Structure
- Stack and Queue
- Tree
- Graph
- Search and Sorting Techniques

Author

D. Poornima

D. Poornima

K. Karunya

K. Karunya

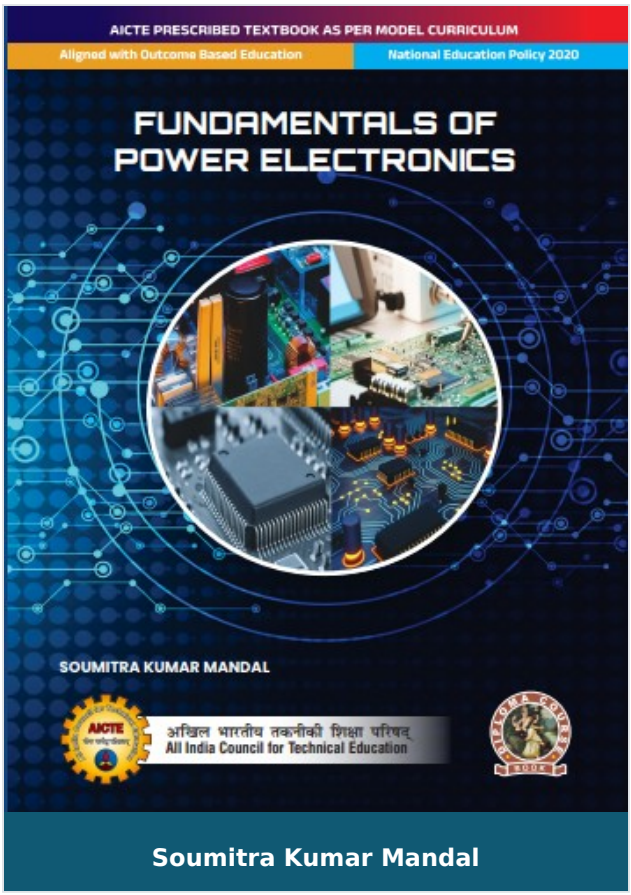
B. Akshaya

B. Akshaya

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320



Fundamentals of Power Electronics

Author :	Soumitra Kumar Mandal
ISBN 13 :	978-93-55387-24-0
ISBN 10 :	9355387245
E-ISBN 13 :	978-93-55387-24-0
Edition :	First
Pages :	340
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 598.00
Categories :	AICTE Prescribed Textbooks, English Books, Book Store
Condition Type :	New
Country Origin :	India

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.

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

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

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

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
- Power Electronic Devices
- Thyristor Family Devices
- Turn-On and Turn-Off Methods of Thyristors
- Phase Controlled Rectifies
- Industrial Control Circuits
- CO and PO Attainment Table

Author

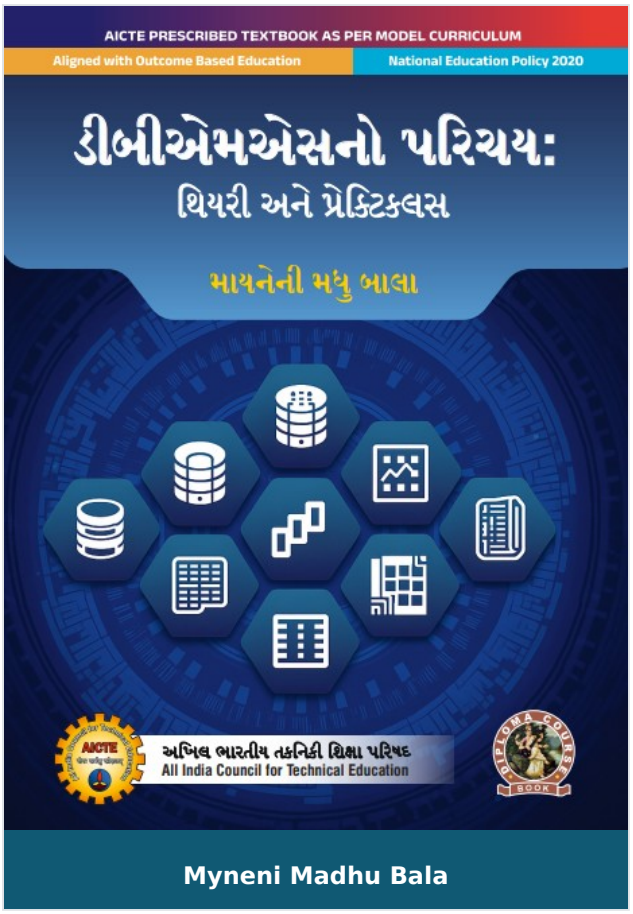
Soumitra Kumar Mandal

Prof. Soumitra Kumar Mandal Professor of Electrical Engineering National Institute of Technical Teachers’ Training & Research, Kolkata

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320



Introduction to DBMS: Theory & Practicals

Author :	Myneni Madhu Bala
ISBN 13 :	978-93-55383-56-3
ISBN 10 :	9355383568
E-ISBN 13 :	978-93-55383-56-3
Edition :	First
Pages :	284
Type of book :	Physical
Year :	2026
Language :	English
Publisher :	Khanna Publishing House
M.R.P :	Rs 448.00
Categories :	AICTE Prescribed Textbooks, Gujarati Books, Book Store
Condition Type :	New
Country Origin :	India

Product Description

Introduction to DBMS: Theory & Practicals

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320

Author

Myneni Madhu Bala

Dr. Myneni Madhu Bala Professor, Department of Computer Science Engineering, Institute of Aeronautical Engineering , Telangana

Khanna Publishing House

4C/4344, Ansari Road, Daryaganj, New Delhi-110002

Email: contact@khannabooks.com | Tel: 011-2324 44 47 - 48 | Mobile: +91-99109 09320