

Linear Integrated Circuit

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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.

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- 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.

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Author

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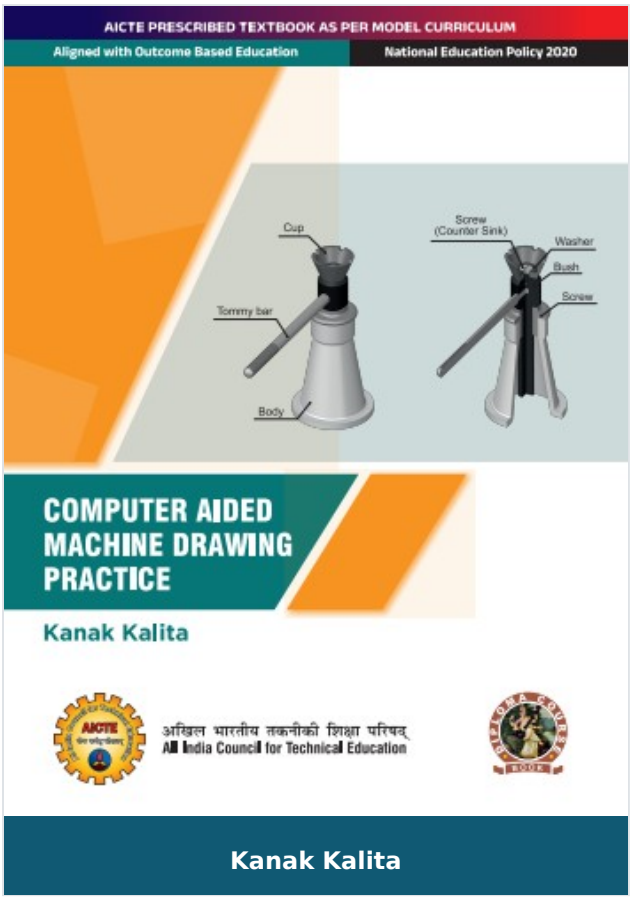

Computer Aided Machine Drawing Practice

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Product Description

Computer Aided Machine Drawing Practice

Computer Aided Machine Drawing Practice offers a comprehensive guide into the world of computer-aided design (CAD) with a focus on machine drawing. As technology evolves, the importance of CAD in the fields of mechanical engineering, automotive design and manufacturing is paramount. This book serves as an essential resource for students and professionals in these domains. Starting with the basics of AutoCAD, the book gradually introduces the reader to its intricacies, with practical insights into 2D and 3D modelling.

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.
- This book is not just an academic tool, but a bridge to the professional world of machine drawing design, making it a must-have for anyone stepping into the realm

of computer-aided design

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Dr. Kanak Kalita Associate Professor, Dept. of Mechanical Engineering (ME), Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai, Tamil

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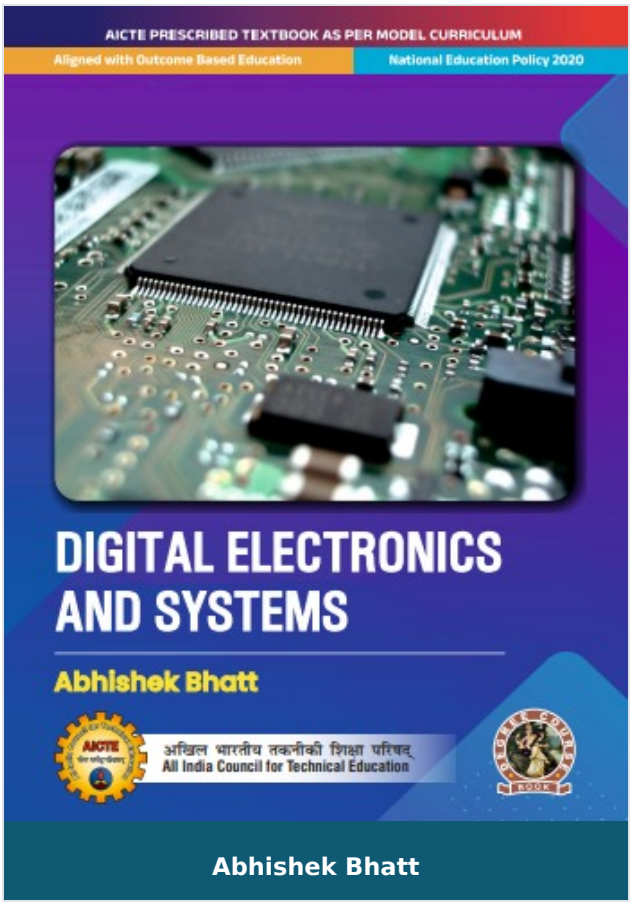

Digital Electronics and System

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Product Description

Digital Electronics and System

Brief Write-up regarding the book This book will embark on a journey that will take every reader through the intricacies of digital logic, circuit analysis, and design while exploring the building blocks of digital systems, including logic gates, flip-flops, registers, and counters. The book is intended to help and guide the students and researchers to delve into the world of combinatorial and sequential logic, understanding how to analyses, design, and optimize digital circuits. It provides insights to the subject matter aligned with the latest model curriculum of the AICTE, followed by the concept of outcome-based education as per the New Education Policy (NEP)-2020.

Salient Features:

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

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

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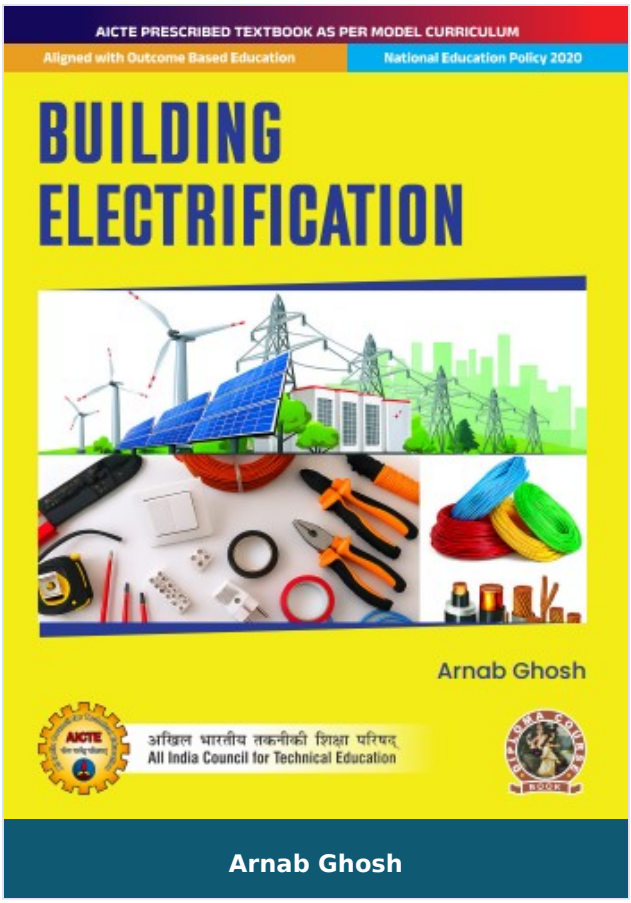

Building Electrification

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Product Description

Building Electrification

This book aims to provide readers, especially third-year diploma students, with a thorough knowledge of Building Electrification in the best possible way. The syllabus of this book is as per the AICTE curriculum model, following the National Education Policy 2020. Each book chapter is very lucid, so one can easily understand the underlying concepts. Review questions, exercises, QR codes of online links, and other learning resources follow explanatory examples. The book discusses electrical wiring tools and accessories, electrical wires and underground cables, wiring methods and wiring layout, residential building electrification, protection of electrical installation, and illumination in residential installation.

Salient Features:

- Content of book aligned with the mapping of Course Outcome, Programs Outcomes, and Unit Outcomes.
- At 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 for the use of ICT, projects, group discussion, etc.
- Student and teacher-centric subject materials are included in the book in a balanced and chronological manner.
- Apart from the essential information, a `know more' section is also provided in each unit to extent the learning beyond the syllabus.
- Multiple choice questions, short and long-answer questions are given in the exercise for students' practice after every chapter.

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- Solved and unsolved problems, including numerical examples, are solved systematically.

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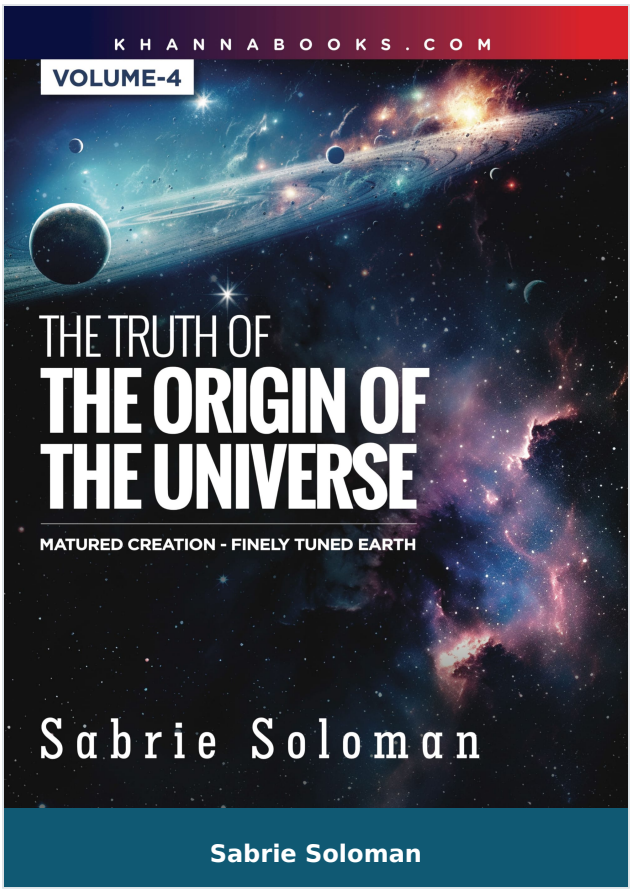

The Truth of The Origin of The Universe (Matured Creation- Finely Tuned Earth) Volume-4

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Product Description

Fully Matured Universe and Finely Tuned Earth.

The concept of a matured creation and a finely tuned Earth is a fascinating topic that has sparked much debate in the realms of science, religion, and philosophy. Proponents of this idea argue that the universe and the Earth were created in a state of maturity and perfection, with all the necessary conditions for life to thrive.

One of the key arguments for a matured creation is the idea of fine-tuning in the universe. This concept suggests that the fundamental physical constants and laws of nature are precisely calibrated to allow for the existence of life as we know it. For example, if the strength of gravity or the electromagnetic force were even slightly different, life as we know it would not be possible. This level of precision has led some to suggest that a higher power must have orchestrated the creation of the universe with the express purpose of allowing life to flourish on Earth.

Moreover, the Earth itself is viewed as a finely tuned machine that provides the perfect conditions for life. From the composition of the atmosphere to the distance of our planet from the sun, everything seems to be finely calibrated to allow for the existence living organisms. The intricate ecosystems that exist on Earth further demonstrate complexity and harmony of this finely tuned planet.

Chapters Covered in This Book:

1. Young Universe –Young Earth.
2. Earth’s Magnetic Field – Earth Age.
3. Life in a finely Tuned Cosmos.
4. The entity of the Creator.
5. Uranus and Neptune are young planets.

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6. 101 Evidence for a young Earth.

7. Isaac newton’s Recognition of the Creator.

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- The Entity of the Creator
- ISAAC Newton’s Recognition of the Creator

Author

Sabrie Soloman

Dr. Sabrie Soloman, Ph.D., Sc.D., MBA, PE - He is the Chairman & CEO of American SensoR x, In, USA; Founder of Advanced Manufacturing Post Graduate Studies at Columbia University, USA; Professor of Advanced Technology at Columbia, where he lectures on Sensors & Control Systems in Manufacturing, Affordable Automation, Computer Integrated Manufacturing (CIM), Flexible Manufacturing System (FMS), Design for Manufacturability, Introduction to Electromechanical Engineering, Modern Welding Technology, and 3D Printing/Bioprinting Technology. Dr. Soloman authored numbers of technical books published and translated worldwide: Sensors Handbook (2nd edition),

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Sensors and Control Systems in Manufacturing (2nd edition), Affordable Automation, Introduction to Electromechanical Engineering, Modern Welding Technology, to name a few. Dr. Soloman holds numerous Patents, Technical Awards, and several US Product Registrations. He is a Fellow of the Society of Manufacturing Engineers. USA. The Royal Society of Manufacturing Engineers (England), and L'Ores Des Ingenieurs Du Quebec (Canada), He received several awards from the American Society of Mechanical Engineers (ASME), the Society of Manufacturing Engineers (SME), and the American Management Association (AMA). Dr. Soloman is considered an international authority on advanced manufacturing technology, robotics, biomedical engineering, pharmaceuticals, and automation in the microelectronic, automotive, beef, pork, poultry industries. He has been and continues to be instrumental in developing and implementing several industrial and modernization programs through the United Nation to European, Asian, and African countries. He is the first to introduce and implement unmanned flexible synchronous/asynchronous manufacturing systems the microelectronic and meat industries, and the first to incorporate advanced vision technology in a wide array of robot/micro-robot manipulators. Dr. Soloman was selected to deliver the US Presidential closing address, "Innovative Remote Sensors Technologies," at the Universal Design Conference, New York, USA

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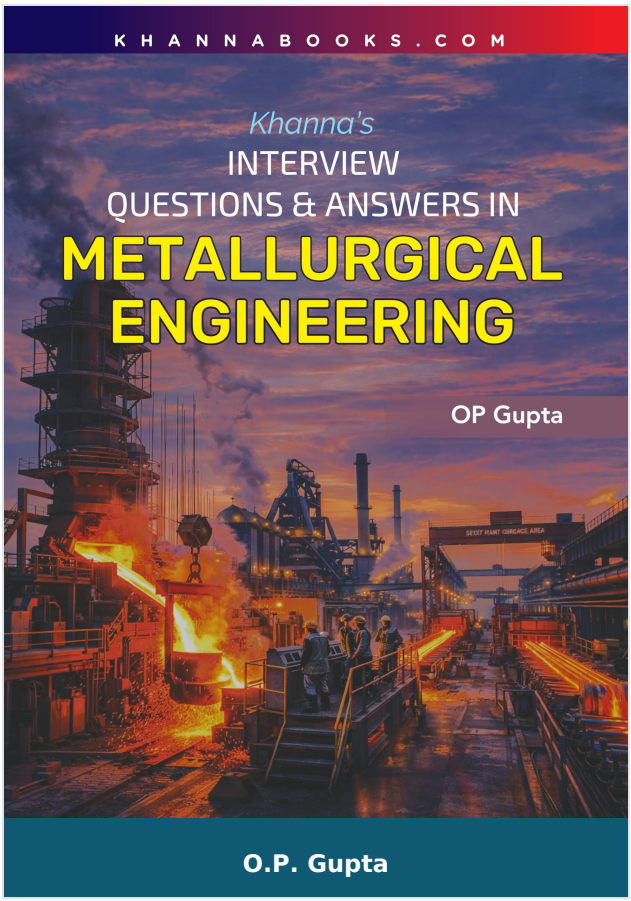

Khanna's Interview Questions & Answers in Metallurgical Engineering

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Product Description

Interview Questions and Answers in Metallurgical Engineering is a definitive preparatory guide designed to bridge the gap between academic theory and professional practice. Authored by Om Prakash Gupta, an experienced industry veteran, the book serves as a comprehensive resource for students and engineers facing the rigors of technical interviews and competitive examinations. Its core theme centers on the practical application of metallurgical principles across a vast spectrum of materials and processes, ranging from foundational material science to advanced nanomaterials and smart technologies.

The primary purpose of this volume is to equip candidates with the precise, high-impact knowledge required by major public and private sector recruiters, such as SAIL, TATA Steel, and DRDO. By presenting information in a clear question-and-answer format, it demystifies complex topics like phase diagrams, heat treatments, and powder metallurgy, making them accessible for quick revision and deep understanding. Whether you are a diploma student, a postgraduate researcher, or a professional seeking a career transition, this book provides the practical value and academic rigor necessary to excel in the metallurgical engineering landscape.

Salient Features

• Comprehensive Coverage: Includes 35 specialized chapters ranging from foundational metallic structures to advanced nanomaterials and polymers.

• Industry Alignment: Specifically tailored to meet the technical standards of elite recruiters like SAIL, TATA Steel, ISRO, and DRDO.

• Academic Integration: Aligned with degree and diploma curricula, as well as professional exams like AMIE and AMIIM.

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• Process Expertise: Offers functional insights into industrial workflows, including casting, welding, and metal forming.

• Property Analysis: Details the physical, chemical, and mechanical properties used for material selection in engineering.

• Future-Ready Focus: Covers modern "Smart" materials and advanced engineering technologies beyond traditional metallurgy.

• Simplified Concepts: Breaks down complex topics, such as the Iron-Carbon Equilibrium diagram and heat treatments, into digestible formats.

• Quality & Safety: Dedicated sections cover mechanical testing and corrosion control to ensure material reliability and longevity.

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- Iron- Carbon Equilibrium Diagram
- Heat Treatment of Metals
- Polymers
- Shaping Processes for Plastics
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- Shaping Process for Polymer Matrix Composites
- Ceramic Materials
- Processing of Ceramics and Cermets
- Nanomaterials
- Advanced/ Smarts Materials
- Modern Engineering Materials
- Corrosion
- Casting
- Glass Working
- Power Metallurgy(PM)
- Metal Forming Technology
- Metal Treatment/Coating
- Welding/ Soldering /Brazing
- 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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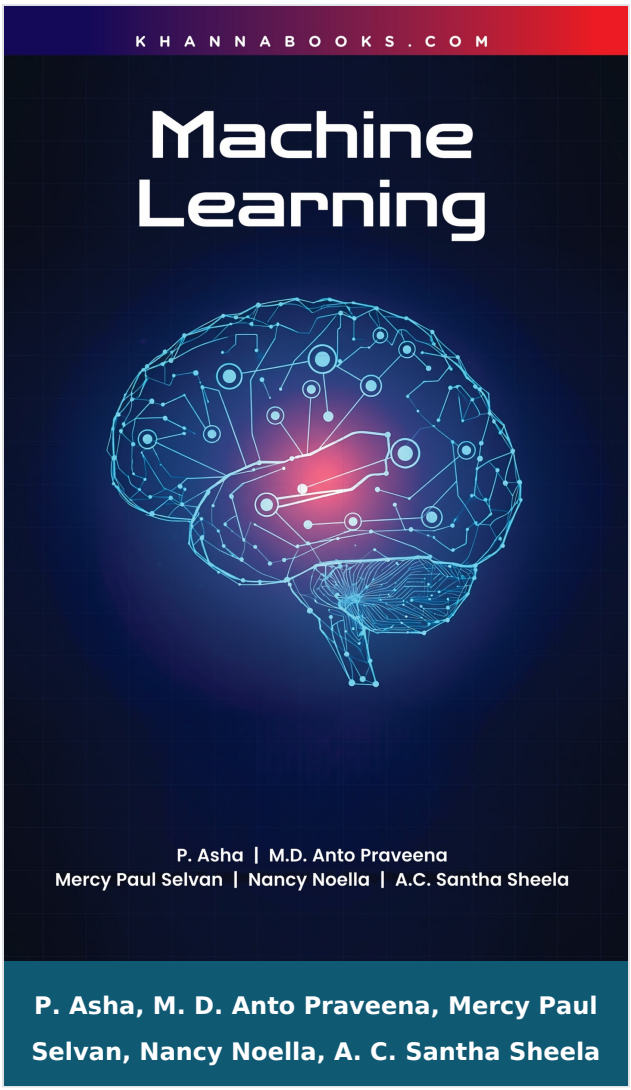

P. Asha, M. D. Anto Praveena, Mercy Paul Selvan, Nancy Noella, A. C. Santha Sheela

Machine Learning

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

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

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

Salient Features:

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

various algorithms.

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

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

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

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

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

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

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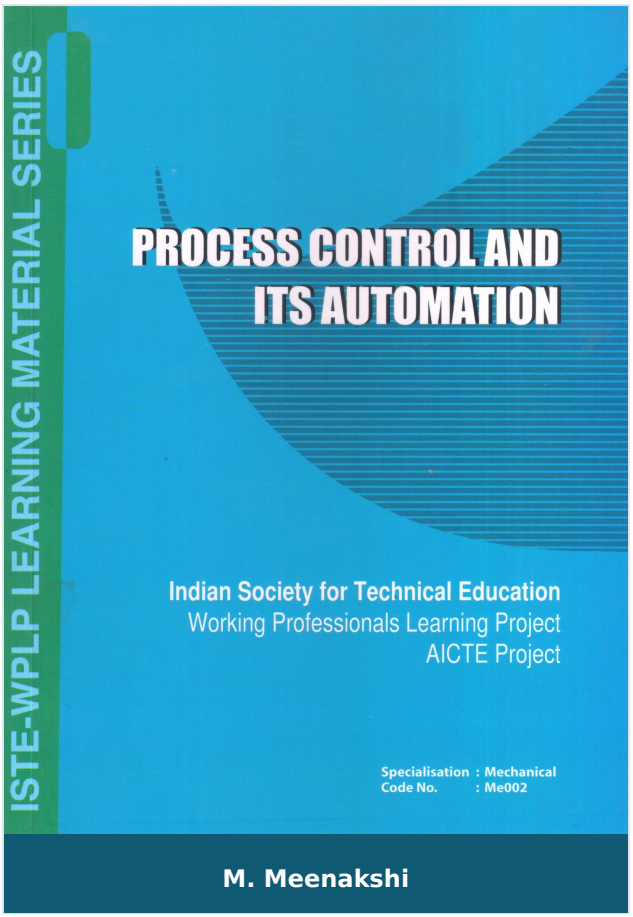

Process Control and ITS Automation

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Product Description

A sound knowledge of the basic principle underlaying any particular branch of engineering is fundamental to its practical application in industry and to its further development. A study of the elements of process dynamics and control now forms an essential part of the education of the chemical and process engineer and is of value also the students in allied fields of fluid process technology.

Process control technology has demonstrated great through the years. Today, the study of process control systems or automation in various engineering institutes and universities is confined to the theoretical aspects, which can hardly be applied to the real world problems. While focusing on the fundamentals, this book reflects the current advances in the technology associated with the process control, hence useful to the students or practicing engineers when they are faced with practical problems.

The main objective of this book is to impart solid application oriented knowledge of the technology spanning the industrial control field. This technology includes control instrumentation, and some specified systems like programmable logic controllers etc. The treatment of programmable logic controllers has also been expanded to reflect how this technology hos increased its application based in modern industry. It also incorporates distributed digital control, which is an important field in all industrial control applications. This book also describes intelligent controllers covering model based controllers, fuzzy controllers and neuro controllers.

The book introduced the subject of automation, its historical development, basic functions and current trends.

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- Distributed Digital Control
- Intelligent Controllers
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Dr. M. Meenakshi is currently working as Professor and Head of the department of Instrumentation Technology, Dr. Ambedkar Institute Technology, Bangalore. She received B.E. degree in instrumentation Technology from S.J.C.E. Mysore, Mysore University, M. Tech degree in Electrical engineering, specialized in controls, guidance and instrumentation from I.I.T Madras and Ph.D form Aerospace Engineering Department, I.I.Sc Bangalore. She has teaching experience of around 21 years and published over 20 national conferences. She has presented several invitee lectures in various seminars and workshops. She has guided large number of students in their project works leading to B.E, M.Tech degrees. She has particulated in formulation of syllabi and curricula of several

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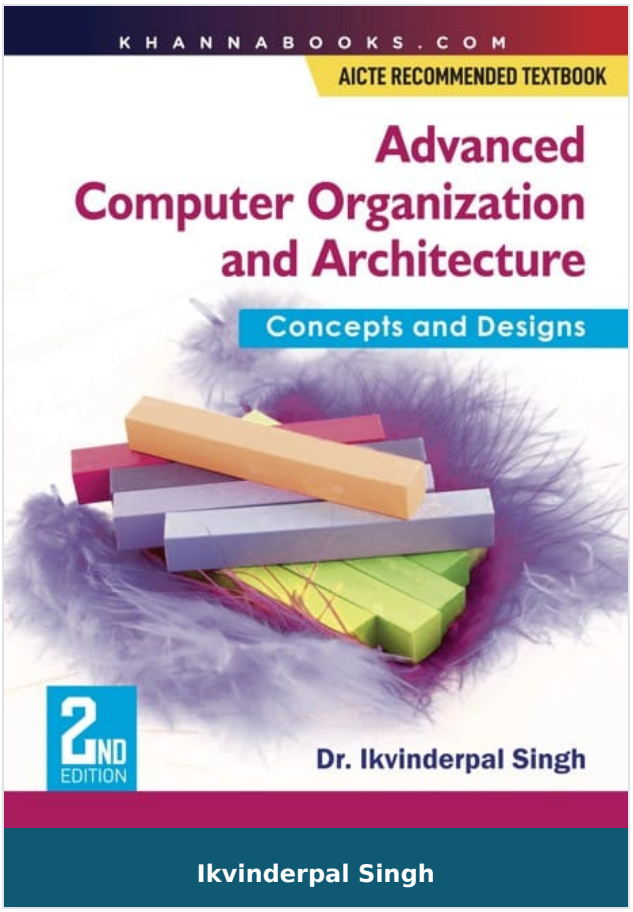

Advanced Computer Organization & Architecture

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Product Description

Describes the introduction of advanced computer architecture and parallel processing. Covers the paradigms of computing like synchronous and asynchronous. Detailed explanation of the Flynn's classification, Kung's taxonomy and reduction paradigm. provides a detailed treatment of abstract parallel computational models like combination circuits, sorting network, PRAM models, interconnection RAMs. Covers the parallelism in uniprocessor systems. Provides an extensive treatment of parallel computer structures like pipeline computers, array computers and multiprocessor systems. Covers the concepts of pipeline and classification of pipeline processors. Give description of super scalar, super pipeline design and VLIW processors. Explains the design structures and algorithms for array processors.

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- Parallel Computer Structures
- Pipe lining
- Principles of Designing Pipelines Processors
- Super scalar and Super pipeline Design
- Design Structures and Algorithms for Array Processors

Author

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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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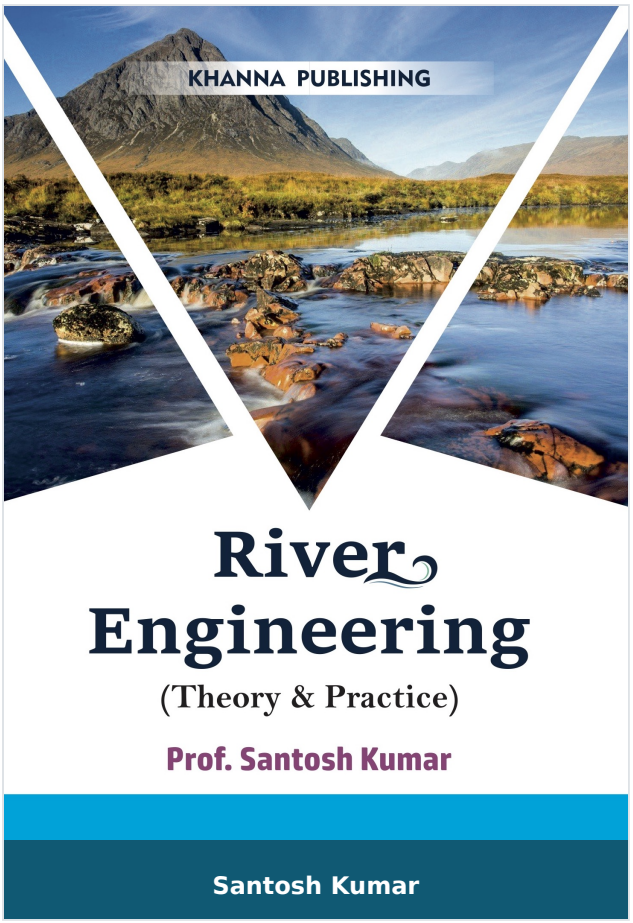

River Engineering

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- Bed Forms (Regime of Flow)
- Resistance to Flow (Channel Roughness)
- Estimation of Sediment Load
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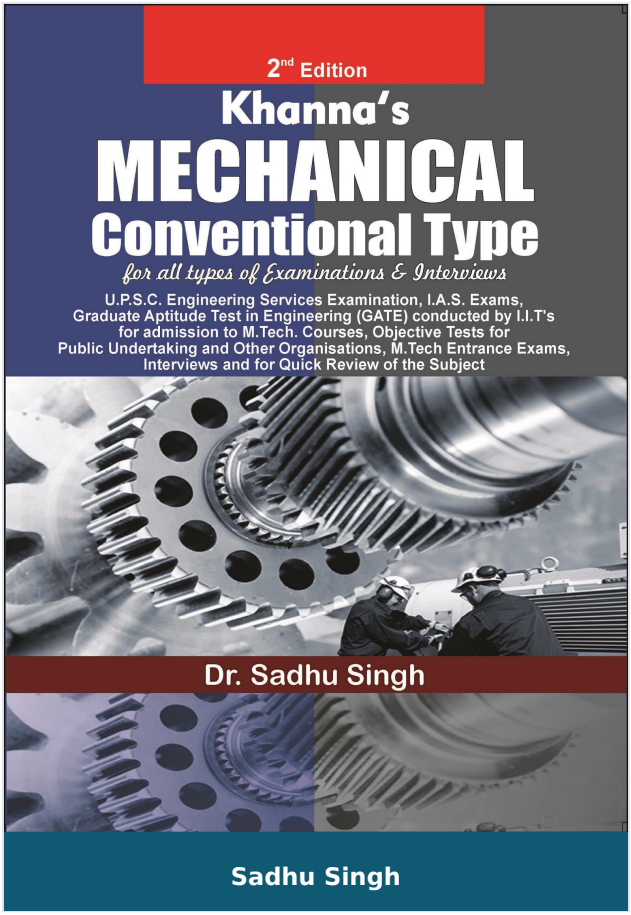

Khanna's Mechanical Conventional Type

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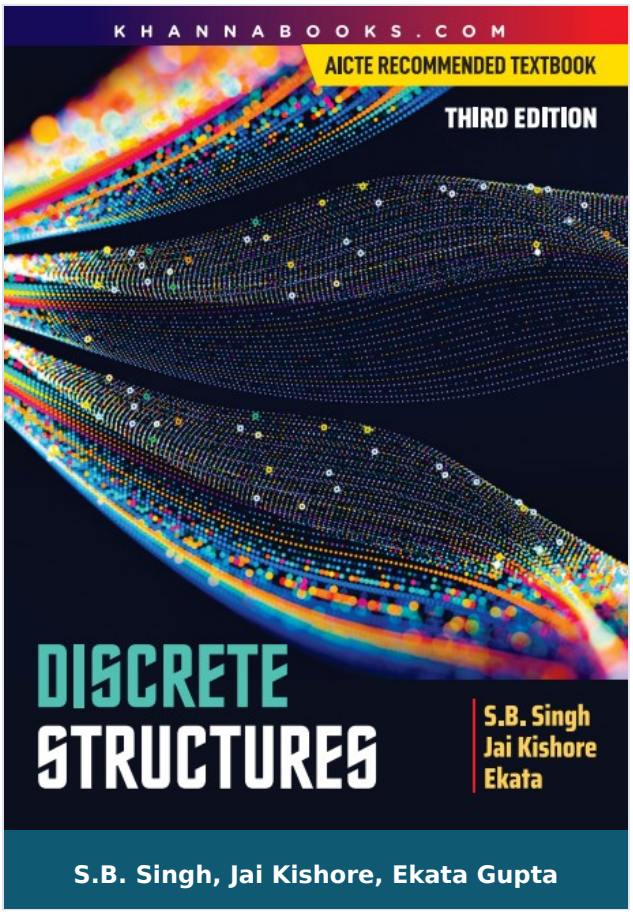

Discrete Structures

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