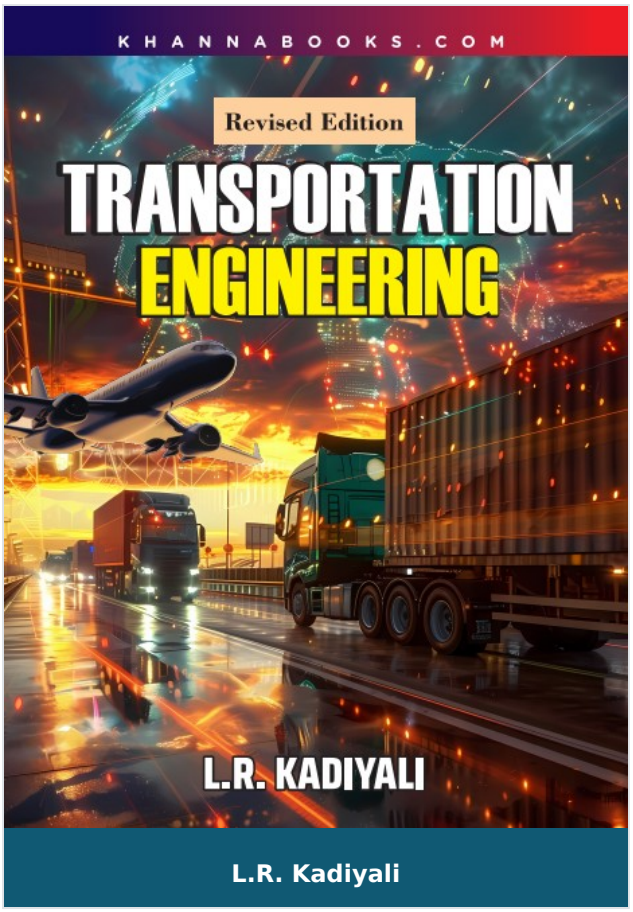


L.R. Kadiyali

Transportation Engineering

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Product Description

India's Transport System has several deficiencies such as inadequate capacity, poor safety record, emission of pollutants and outmoded technology. But as the economy is poised for a big growth in the coming years transportation engineers will have to come up with innovative ideas.

The book addresses these issues and it is hoped that the engineering students studying transportation engineering will have a clear idea of the problems involved and how they transportation engineering will have a clear idea of the problems involved and how they can be overcome in their professional career. This book has been designed keeping in mind the latest syllabi of all major Indian Universities.

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Table Of Contents

- SECTION-1: TRANSPORTATION SYSTEMS AND PLANNING
- Introduction
- Role of Transport in Society
- Modes of Transport and Criteria for Choice
- Transport Planning
- SECTION-2: HIGHWAY ENGINEERING
- History of Growth of Highways
- Development of Roads in India After Independence
- Geometric Design
- Surveys, Investigations and Project Preparation
- Embankment Design and Construction
- Highway Drainage
- Cross Drainage Structures
- Types of Pavements and Factors Governing Pavement Design
- Design of Flexible Pavement
- Design of Rigid Pavements
- Pavement Materials
- Construction of Pavements
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- SECTION-3: RAILWAY ENGINEERING
- Introduction to Railway Engineering
- Railway Technology
- Role of Railways
- History of Growth of Railways in India
- Surveys and Project Preparation
- Geometric Design of Railway Track
- The Permanent Way
- Point and Crossings
- Signalling and Traffic Control
- Traction and traction Resistance
- Stations, Yards and Station Equipment
- Construction of a Railway Line
- Maintenance of a Railway Line
- Track Renewal
- Bridges and Tunnels
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- Modern Technological Advances
- SECTION-4: AIRPORT ENGINEERING
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- Pipe Line Transportation
- Aerial Ropeway
- Belt Conveyors
- SECTION-6: WATER TRANSPORT
- Water Transport An Overview
- Planning for Water Transportation Facilities
- Harbours
- Lock Entrance
- Docks
- Transit Sheds, Warehouses and Cargo Handling Facilities
- Inland Water Transport
- SECTION-7: MULTI-MODAL TRANSPORT
- Multi-Modal Transport

Author

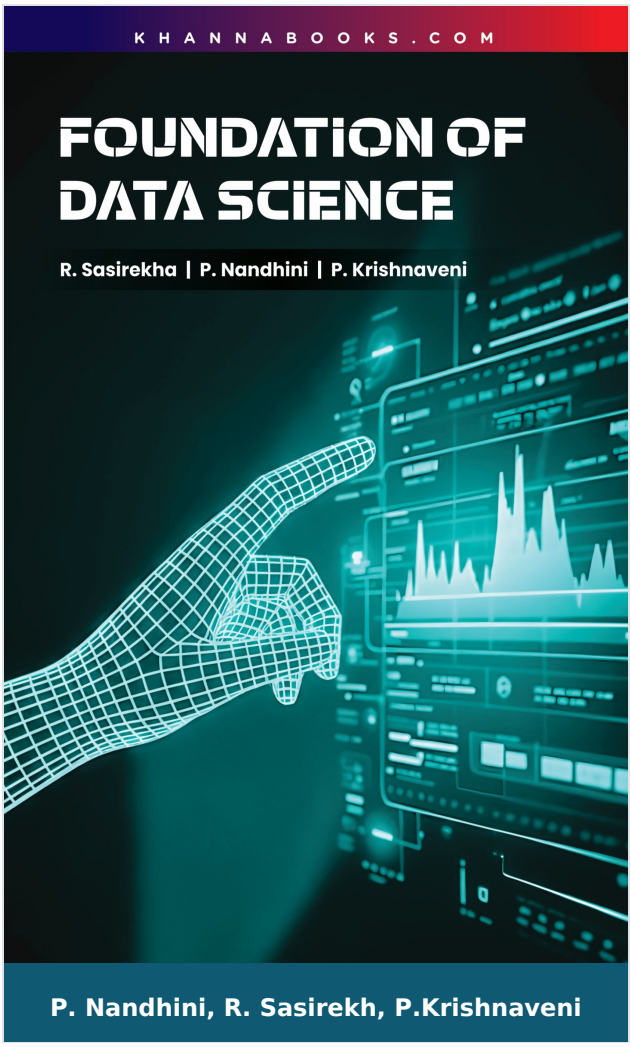
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L.R. Kadiyali Dr. L.R.Kadiyali is B.E.(Hons.), from Bombay and pursued Ph.D. from Kakatiya University.He has done P.G. diploma in Highway and Traffic Engineering from Newcastle-Upon-Tyne. He is Formerly Chief Engineer, (Roads Wig), Ministry of Road Transport & Highways, New Delhi and Study Director, Road User Coast Study, Central Road Research Institute New Delhi.

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Foundation of Data Science

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Product Description

Foundation of Data Science is a comprehensive textbook designed to provide readers with a strong foundation in modern data science concepts, techniques, and applications. In today's data-driven world, the ability to collect, process, clean, analyze, and interpret large volumes of data is essential across industries. This book serves as a structured and practical guide to the complete data analysis pipeline, with a particular emphasis on Natural Language Processing (NLP) and Big Data Analytics.

The text begins with the fundamentals of data acquisition, covering methods for collecting data from multiple sources, including internal databases, external repositories, APIs, and web scraping techniques. It then explores critical data preprocessing activities such as data cleaning, transformation, quality control, handling missing values, and noise reduction, enabling readers to prepare datasets for accurate analysis and modeling.

A significant portion of the book is dedicated to Natural Language Processing, introducing key concepts such as Bag-of-Words, Regular Expressions, Tokenization, Stemming, Lemmatization, TF-IDF, and Sentiment Analysis. Through practical examples and case studies, readers learn how to transform unstructured textual information into meaningful insights for decision-making and business intelligence.

The book further extends into Exploratory Data Analysis (EDA), data visualization techniques, and modern Big Data frameworks such as Hadoop and Spark. Combining theoretical understanding with practical implementation, this resource is suitable for students, researchers, data analysts, and professionals seeking to build expertise in data science and text analytics. By integrating NLP methodologies with contemporary Big Data concepts, the book provides a complete toolkit for extracting value from data and succeeding in a data-centric environment.

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- Data Sourcing & APIs: Explains data acquisition techniques from internal and external sources, including web scraping and the use of APIs such as Google Maps and IBM Watson for real-time data collection.
- Data Cleaning & Wrangling: Covers systematic approaches to data preprocessing, transformation, data munging, handling noisy datasets, and resolving inconsistencies to improve data quality.
- Core NLP Toolkit: Introduces essential Natural Language Processing concepts, including Bag-of-Words, Regular Expressions, Tokenization, Sentence Splitting, and pattern matching techniques.
- Linguistic Normalization: Clearly differentiates between stemming and lemmatization, demonstrating how linguistic rules and morphological analysis are applied to derive meaningful root forms of words.
- Feature Engineering: Discusses advanced text representation techniques such as TF-IDF (Term Frequency–Inverse Document Frequency), stop-word removal, and feature extraction methods for enhanced analytical performance.
- Practical Visualization: Provides hands-on guidance on data visualization and Exploratory Data Analysis (EDA), including the use of professional tools such as Tableau for effective data presentation.
- Big Data Ecosystem: Introduces the principles, characteristics, and frameworks of Big Data, including technologies such as Hadoop and Spark for managing and processing large-scale datasets.
- Real-World NLP Case Study: Presents a comprehensive Sentiment Analysis case study demonstrating how NLP techniques can be applied to extract opinions, emotions, and actionable insights from textual data across diverse domains.

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Table Of Contents

- Introduction to Data Acquisition
- Data Pre-Processing
- Reliable Data: Quality Control And Transformation Methods
- Introduction to NLP
- Introduction to Big Data

Author

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P. Nandhini P. Krishnaveni

R. Sasirekh

R. Sasirekha P. Nandhini P. Krishnaveni

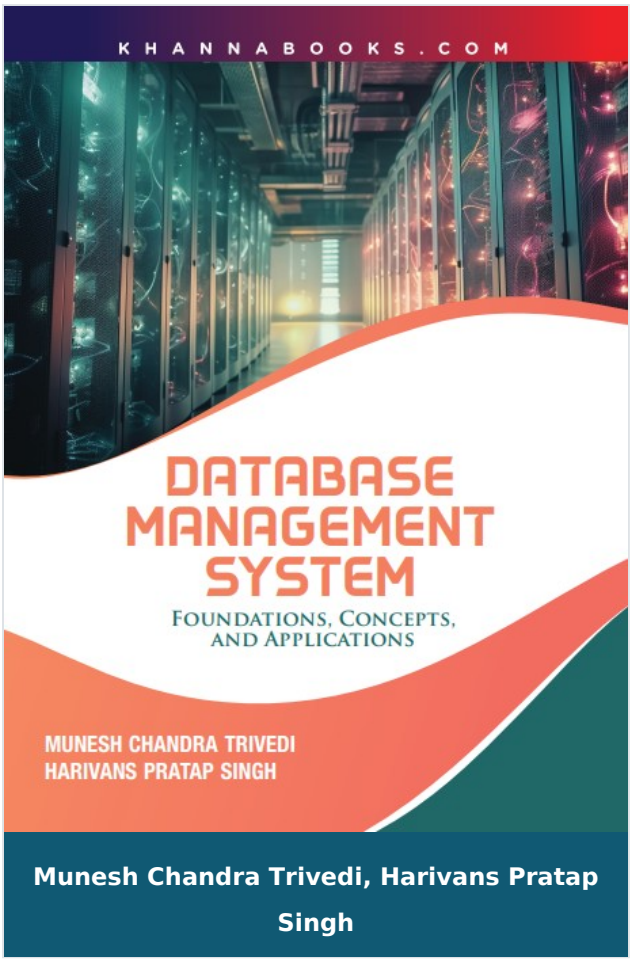
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Munesh Chandra Trivedi, Harivans Pratap Singh

Database Management System(Foundations, Concepts, And Applications)

Author :	Munesh Chandra Trivedi, Harivans Pratap Singh
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Product Description

My Book of Database Management System” is a complete and structured guide to the principles and applications of DBMS, designed for a wide audience—from undergraduate students to professionals preparing for GATE, IT MNC interviews, and real-world data system design.

This book provides a deep, yet accessible exploration of database theory, architectures, query languages, transaction management, and modern trends in distributed and NoSQL systems. Aligned with the syllabi of leading engineering colleges and global universities, it combines academic precision with industry-relevant insight, making it ideal for both learning and long-term reference.

KEY FEATURES OF THE BOOK

- Comprehensive Coverage
- Conceptual Clarity with Practical Insight
- GATE and Interview Ready
- Hands-On Approach
- Step-By-Step Explanation of Core Topics
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Table Of Contents

- INTRODUCTION
- ER MODEL
- INTRODUCTION TO RELATIONAL MODEL
- FUNCTIONAL DEPENDENCY
- NORMALIZATION

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 (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

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international conferences technically sponsored by IEEE, ACM, AND Springer. Dr.

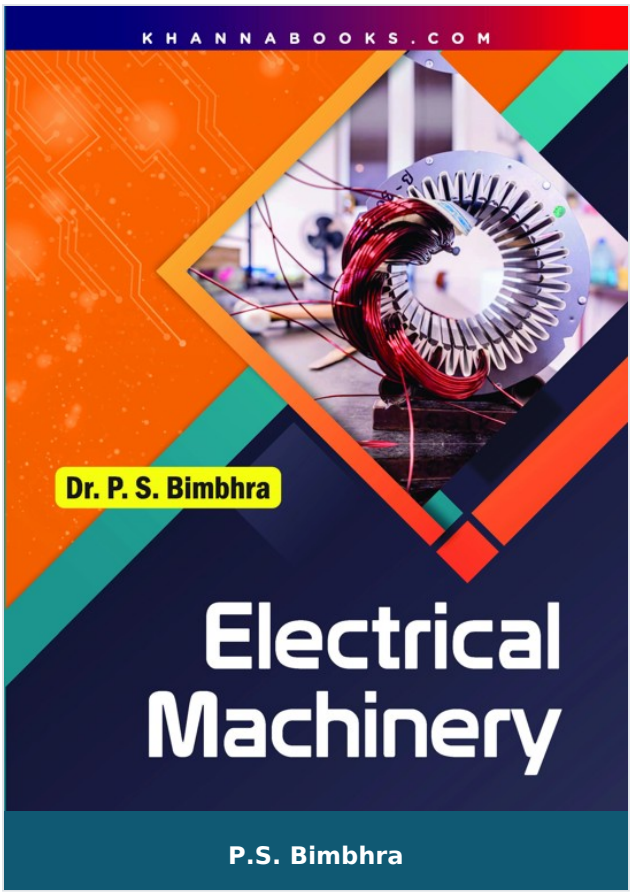
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Dr. Harivans Pratap Singh continues to make significant contributions to research, innovation, and enterprise solutions on a global scale.

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Product Description

This thoroughly revised and updated edition presents a rigorous and comprehensive treatment of transformers and more common types of rotating electrical machine types. Each chapter begins with rudimentary concepts and is so developed that an average student can easily comprehend it. The salient features of this book are :

In-depth coverage of transformers, dc machines, 3-phase synchronous, and induction machines.

Highlights that electrical machines operate on the same basic principles.

Devotes a chapter on electromechanical-energy conversion principles and another on dc/ac machine windings.

Drive aspects and applications are discussed for each machine type.

Clarity of presentation is enhanced by illustrative figures and examples selected from question-papers of important Universities, IAS, IES, and GATE.

Includes numerous problems, conceptual questions and objective-type questions (with answers) to help the reader master the basic concepts.

This edition includes a chapter on “basic principles of electrical machines.”

All these features contribute towards making this book an ideal text for undergraduate students of degree classes. Practicing engineers, through self-study, will also find this volume useful to them.

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Table Of Contents

- Basic Principles of Electrical Machines
- Transformers
- Electromechanical Energy Conversion Principles
- Basic Concepts of Rotating Electrical Machines
- D.C. Machines
- Polyphase Synchronous Machines
- Chapter
- Polyphase Induction Motors
- Armature windings
- APPENDIX - A:
- Magnetic Circuits
- APPENDIX - B:
- Three-Phase Circuits
- APPENDIX - C:
- Objective Type Questions
- APPENDIX - D:
- Short-Answer Type Questions
- APPENDIX - E: Index

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Dr. P.S. Bimbhra retired as a professor of Electrical and Electronics Engineering from T.I.E.T. Patiala. A graduate of Punjab Engineering College, Chandigarh, he received his

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Product Description

“Environmental Science” is an audit course for the first year Diploma programme in Engineering & Technology. Syllabus of this book is strictly aligned as per model curriculum of AICTE, and academic content is amalgamated with the concept of outcome-based education.

Book covers four units- Ecosystem, Air and Noise Pollution, Renewable Sources of Energy and Solid waste management, ISO 14000 & Environmental Management, Every unit contains as set of exercise at the end of each unit to test the student’s comprehension.

Some salient features of the book:

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

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

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

4. Figures and tables are insert to improve clarity of the topics.

5. Objective questions, Short questions and long answer exercise given for practice of students after every unit.

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Table Of Contents

- Foreword,
- Acknowledgement,
- Preface,
- Outcome Based Educations,
- Course Outcomes,
- Abbreviations and symbols,
- List of Figures,
- Guidelines for Teachers,
- Guidelines for Students,
- Ecosystem
- Air and Noise pollution
- Renewable sources of Energy
- Soil waste Management, ISO 14000& Environmental management.
- Important Day Related to Environment
- CO and Po Attainment Table
- Index.

Author

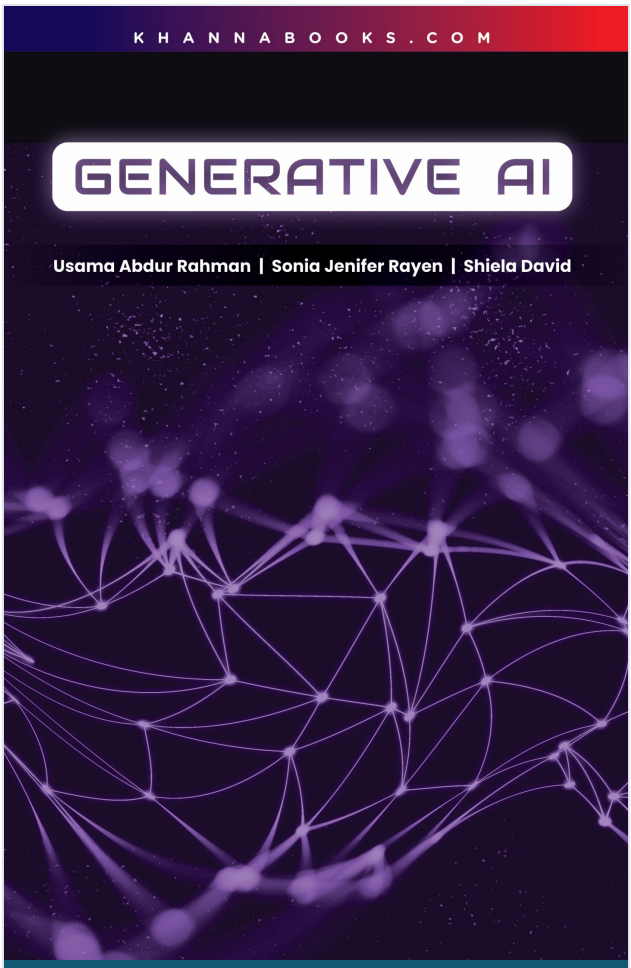
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Sonia Jenifer Rayen, Shiela David, Usama Abdur Rahman

Generative AI

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Product Description

Generative AI (Gen AI) has rapidly evolved from a theoretical concept into a transformative technology capable of simulating human creativity, generating content, producing innovative ideas, and enabling autonomous decision-making. This book serves as a comprehensive and structured guide to understanding the foundations, architectures, applications, and future directions of Generative Artificial Intelligence. Designed for students, researchers, professionals, and technology enthusiasts, it provides both theoretical insights and practical perspectives on one of the most influential fields in modern computing.

The text begins by tracing the historical evolution of Artificial Intelligence, highlighting key milestones that shaped the development of machine learning and intelligent systems. It then builds a strong conceptual foundation by introducing Neural Networks and the revolutionary Transformer Architecture, which forms the backbone of modern generative systems. Special emphasis is placed on the Attention Mechanism, encoder-decoder architectures, and the emergence of Large Language Models (LLMs) that power advanced conversational and content-generation systems.

Beyond foundational concepts, the book explores advanced generative techniques such as Generative Adversarial Networks (GANs) and Variational Autoencoders (VAEs), explaining their architectures, workflows, and practical applications. Readers gain insights into how generative models create realistic text, images, and multimedia content, while also understanding the principles behind AI Agents, prompt engineering, and modern AI development frameworks.

The practical relevance of Generative AI is demonstrated through extensive real-world applications across healthcare, finance, manufacturing, software engineering, media, and entertainment. The text also addresses critical contemporary topics including model

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evaluation metrics, ethical considerations, responsible AI development, and emerging innovations such as Quantum AI and Neuromorphic Computing. By combining academic rigor with practical implementation, this book provides a complete roadmap for mastering the rapidly evolving landscape of Generative Artificial Intelligence.

Salient Features:

- Foundational AI Concepts: Provides a detailed overview of the history and evolution of Artificial Intelligence, establishing a strong foundation in neural networks, machine learning, and the development of generative technologies.
- Transformer Architecture Deep Dive: Thoroughly explains Transformer Models, the Attention Mechanism, and the distinctions between encoder-based architectures (such as BERT) and decoder-based Large Language Models.
- Large Language Model Mastery: Covers the principles, architectures, and applications of LLMs, including their use in natural language processing, content generation, summarization, translation, and conversational AI systems.
- Advanced Generative Models: Presents comprehensive coverage of Variational Autoencoders (VAEs) and Generative Adversarial Networks (GANs), detailing their components, workflows, training methodologies, and practical applications.
- Practical AI Agents & Frameworks: Introduces AI Agents and modern development frameworks such as Lang Chain, enabling readers to build scalable and production-ready Generative AI applications.
- Cross-Industry Applications: Demonstrates the transformative impact of Generative AI across multiple sectors, including healthcare, manufacturing, finance, software development, and digital media.
- Model Evaluation Techniques: Explains important evaluation metrics such as Perplexity, BLEU Score, and ROUGE Score, helping readers assess and benchmark the performance of generative and language models.

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- Future & Ethical Directions: Explores emerging topics including Multimodal AI, prompt optimization techniques (Top-K and Top-P sampling), ethical AI practices, Quantum AI, and Neuromorphic Computing.

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Table Of Contents

- Introduction to Generative AI
- Transformer
- Large Language Models (LLMs)
- Image Generation
- Model Evaluation and Future of Generative AI

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Shiela David

Shiela David

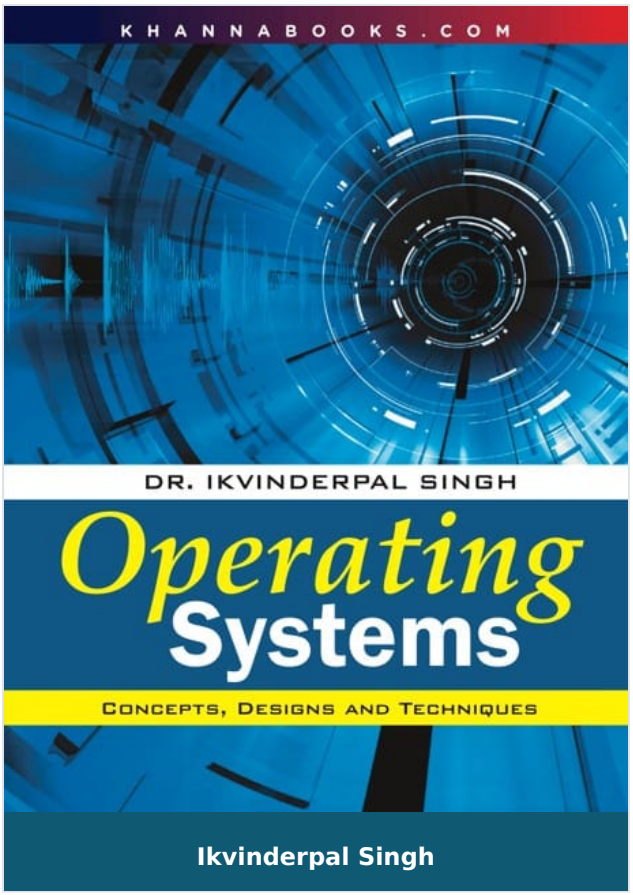
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Operating Systems

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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. With each chapter, the continuity of topics is excellent. The figures appropriately enhance and amplify the topics. Case studies are organized in a lucid manner. The exercises can be found at the end each chapter. Other sections are devoted to advanced topics, e.g. deadlock characterization, process synchronization and scheduling in multiprocessor systems, file sharing semantics, file system reliability and capabilities.

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Table Of Contents

- Overview
- Computer System Structures
- Operating System Structures
- Process and Threads
- Process Scheduling
- Process Synchronization
- Deadlocks
- Memory Management
- Virtual Memory
- Input/Output and Device Management
- Disk Management
- File Management
- Protection And Security
- Distributed Systems
- Case Studies Of Unix And Windows NT

Author

Ikvinderpal Singh

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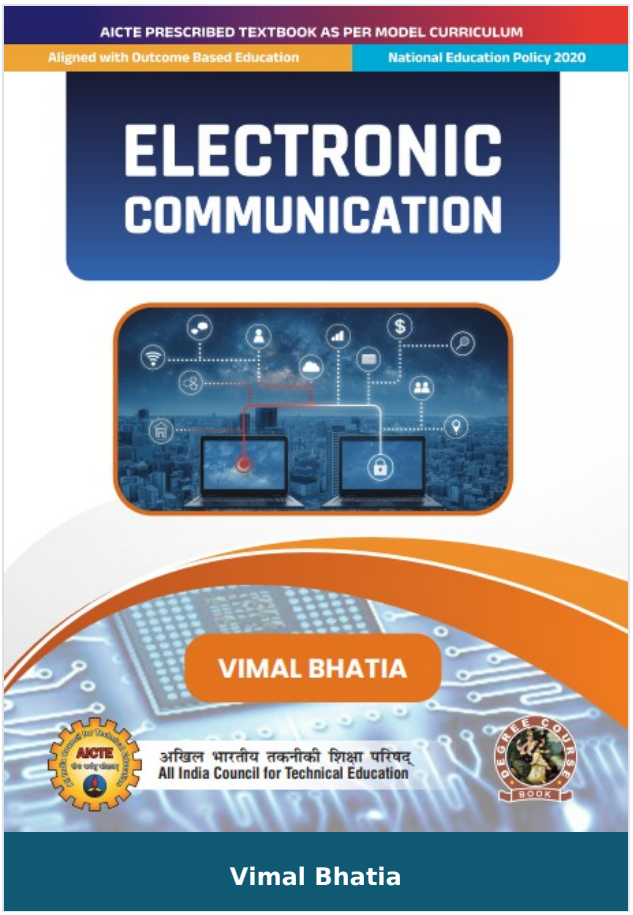
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Electronic Communication

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Product Description

Electronic Communication

This book familiarizes the students to different domains of electronics communication. Main purpose of this book is to help students and researchers to understand basics of electronics communication. The main content of this book is aligned with the model curriculum of AICTE followed by concept of outcome-based education as per National Education Policy (NEP) 2020.

Salient Features:

- Content of the book aligned with the mapping of Course Outcomes, Programs Outcomes and Unit Outcomes.
- In start of eads 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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Table Of Contents

- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Guidelines for Teachers
- Guidelines for Students
- Abbreviations and Symbols
- List of Figures
- Analog modulation Techniques
- Noise
- Pulse Modulation
- Baseband receiver
- Passband digital Transmission
- Passband receiver
- Appendices
- Index

Author

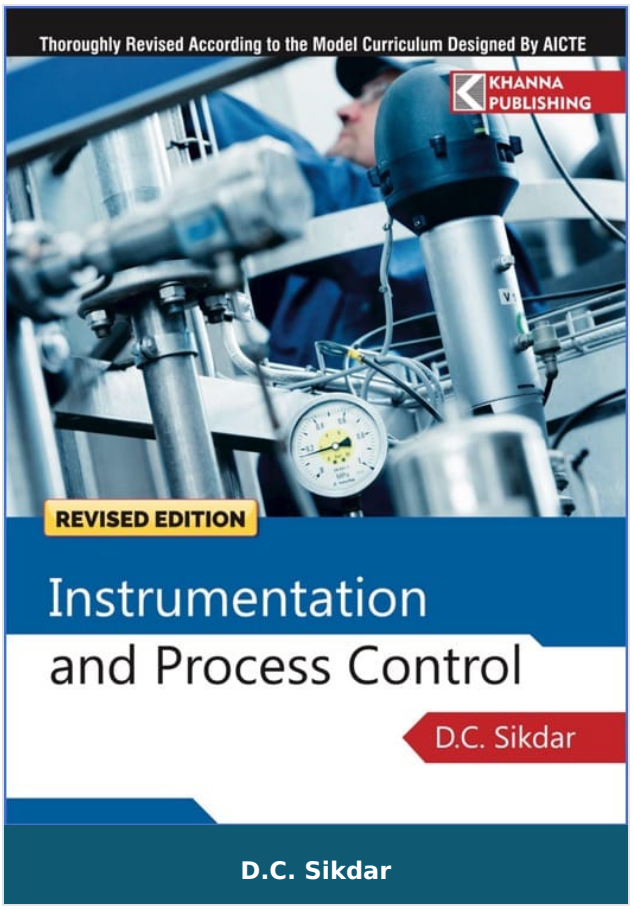
Vimal Bhatia

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Instrumentation and Process Control

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Product Description

This book is students friendly. It also demonstrates how to solve the industry related problems that crop up in Chemical Engineering Practice. The chapters are organized in a simple way that enables that students to acquire and in depth understanding of the subject. The emphasis is given to the fundamental of measuring instrument, Laplace Transform, Basic Concept of process control, first order and Second order system, Control of Industrial Bio-processes, Controller and Final control elements, Block diagram reduction techniques, Determination of Stability of a process, Advanced control techniques and control Structure of unit operations, all coming under the realm of Process Control. Apart from the numerous illustrations, the book contains review questions, exercises and aptitude test in chemical Engineering which bridge the gap between theoretical learning and practical implementation. All numerical problems are solved in a systematic manner to reinforce the understanding of the concepts.

This book is primarily intended as a textbook for the under graduate students of Chemical Engineering, It will also be useful for other allied branches such as Medical Electronics, Aeronautical Engineering, Polymer Science and Engineering, Bio-technology as well as diploma in Chemical Engineering.

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Table Of Contents

- Instrumentation Fundamental
- Pressure Measurements
- Temperature Measurements
- Flow Measurements
- Level Measurements
- Laplace Transform
- Basic Concept of Process Control and First Order System
- First Order System in Series
- Second Order System
- Industrial Bio-processes
- Controllers and Final Control Elements
- Block Diagram and Transient Response of Closed Loop Control System
- Stability
- Advanced Control Techniques
- Control Structure of Unit Operations
- Answer to Exercise Problems
- Appendix
- Index

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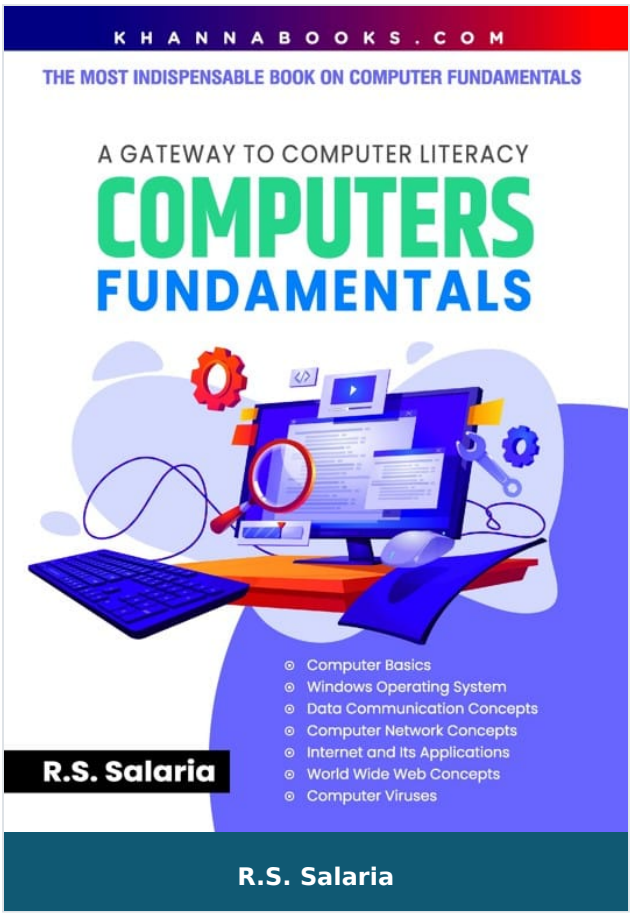
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and half decades of teaching experience. Prof. Sikdar has published many papers in national and international journals of repute. he has received Best Research Thesis Award from Karnataka State Bio-fuel Development Board for guiding M.Tech Thesis on "Development of Bio-Hydrogen Dependent Fuel Cell using Micro Algae" in 2012. Prof. Sikdar is also a member of Indian Society of Technical Education (ISTE) and Indian Institute of Chemical Engineers (IIChE).

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Product Description

Simple and easy language, encourages self study, Enables to use computer independently, provides working knowledge of Window XP operating system, Introduces data communication and network concepts, Provides working knowledge of Internet and World Wide Web, Introduces computer viruses.

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Table Of Contents

- Introduction to Computers
- Computer as a System
- Input/Output Devices
- Memories & Storage Devices
- Number Systems & Binary Codes
- Computer Arthmetic
- Boolen Algebra & Logic Circuits
- Computer Software
- Program Planning & Design
- Programming Languages
- Operating Systems
- Data Communications
- Computer Networks
- Internet
- World Wide Web (WWW)
- Computer Viruses

Author

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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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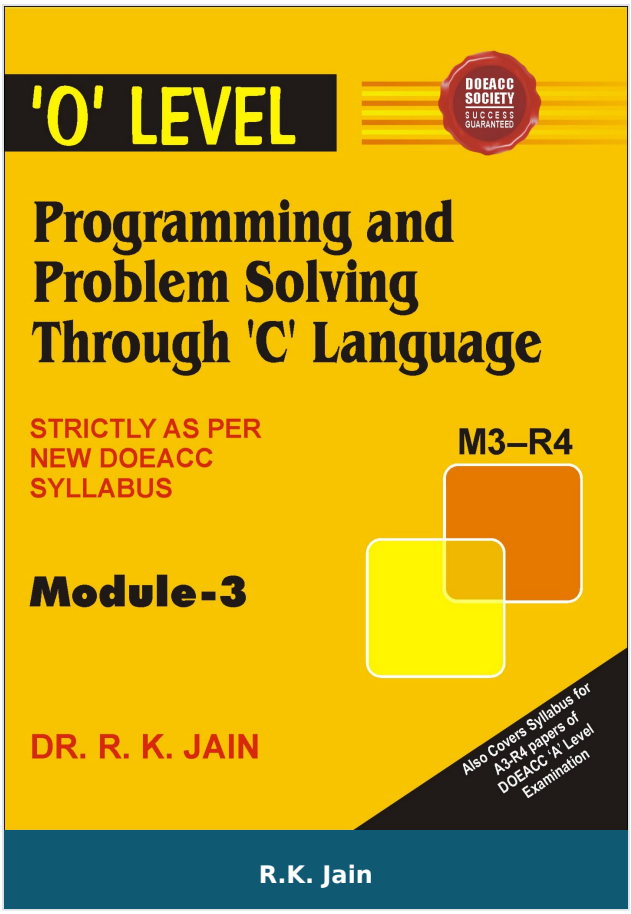
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Programming & Problem Solving Through ‘C’ Language

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Product Description

This book covers the totally new syllabus provided by Department of Electronics, for the 'O' level, namely module M3-R4. Both the aspects of programming and problem solving through C are covered. Most. of the topics have been explained with the help of fully solved programs. Each program has fully checked, complied and tested to achieve the desired results as shown in the book. The book covers the various features of C like arrays, function, pointers linked list, structures, unions and file processing, etc. This has been done keeping in mind the level of various students who are doing to study this book.

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Table Of Contents

- Introduction to Programming
- Algorithms for Problem Solving
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- Conditional Statements and Loops
- Arrays
- Functions
- Storage Classes
- Structures and Unions
- Pointers
- Self Referential Structures and Linked Lists
- File Processing
- G. Glossary
- I. Index
- S1: Sample Paper 1
- S2: Sample Paper 2
- S3: Sample Paper 3
- S4: Sample Paper 4
- S4: Sample Paper 5

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Dr. R.K. Jain studied at IIT Powai and submitted his thesis for Ph.D at Iit Delhi. He has held various important posts in the past. At present he is advisor to variuos universities on

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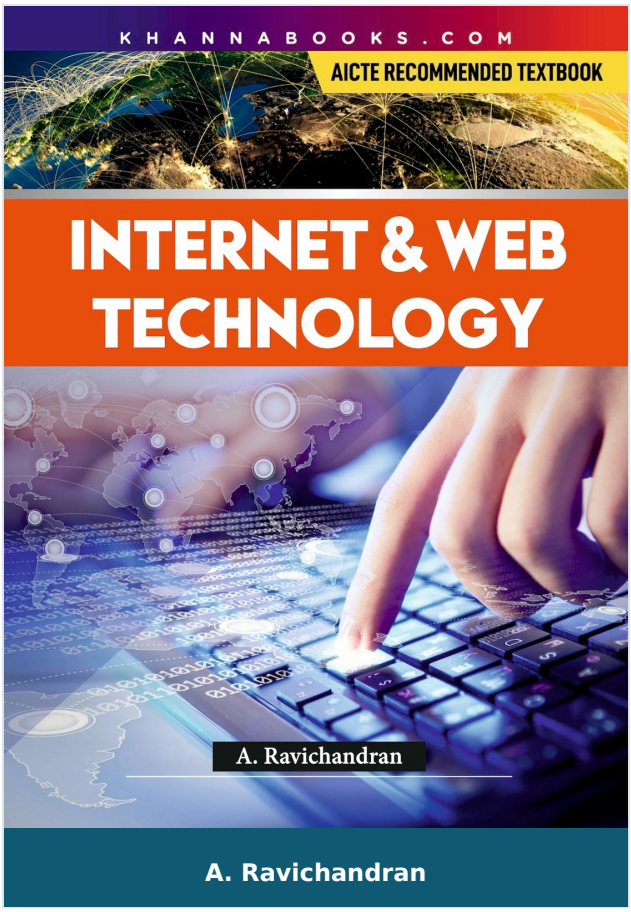
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setting up of a computer department and setting up of the syllabus for the same. With his knowledge of the various computer topics, he is and ideal choice for writing these kinds of books.

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Internet and Web Technology

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Product Description

This book covers all the important aspects of the Web and the Internet, their growth, usage and abilities. Each topic has various practical examples with both text and their outputs. Most of the current topics like JavaBeans, Java Servlets, Java Enterprises, JDBC, etc., are covered in the best possible manner. Each Chapter is interlaced with screenshots wherever needed. At the end of every chapter, you would find Revision, Multiple Choice Questions and Subjective Questions. These would enable you to get a better grasp over the subject.

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- Introduction to Web Development Strategies
- Introduction to HTML
- Cascade Style Sheets (CSS)
- Extensible Markup Language (XML)
- JavaScript
- JavaBeans
- Java Server Pages (JSP)
- JSP Directives and Standard Actions
- Java Servlets
- JDBC (Java Database Connectivity)
- Common Gateway Information (CGI), Practical Extraction and Review Language (PERL)
- RMI, VBScript & COM/DOM
- Active Server Pages (ASP)
- Index

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