

R Programming

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Product Description

This comprehensive textbook, R Programming, is meticulously designed to serve as a complete, hands-on guide for mastering R, the world's most popular open-source language for statistical computing and data analysis. The book's core theme is bridging the gap between theoretical data science concepts and practical implementation, offering a seamless learning journey from fundamental programming syntax to advanced analytical applications. It begins by laying a solid foundation in the History and Fundamentals of R, covering installation, package management, control structures, and essential data operations like matrices and strings.

The purpose is to equip readers with the skills to effectively manipulate, analyze, and visualize data, leveraging R's outstanding graphical capabilities. The practical value is immediately evident through its coverage of reading and writing various data interfaces (CSV, XML, Web Data) and generating professional-grade charts and graphs for visualization. Moving beyond basics, the book dedicates extensive sections to applying core Statistical Techniques (including distributions, ANOVA, and time series analysis) and diving deep into Machine Learning paradigms like Classification (Random Forest, SVM), Clustering (K-Means), and Association Rule Mining (Apriori). Finally, it introduces cutting-edge application development using R Shiny to build interactive web applications and scales up analysis with instruction on Integrating Hadoop with R. The target audience includes students (particularly those in courses like SCSA4001), data science professionals, statisticians, and researchers seeking a practical, cross-platform resource for data-driven decision-making.

Salient Features:

• Fundamental R Concepts: Provides a robust introduction to R, covering installation, package management, control structures (loops, conditionals), user-defined functions, and matrix/string operations.

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• Comprehensive Data I/O: Details methods for reading and writing data using R, including common formats like CSV and XML, as well as techniques for scraping and interacting with Web Data.

• Statistical Toolkit: Explores key statistical applications such as descriptive statistics, probability distributions, ANOVA, and time series analysis, utilizing essential R packages like MASS and STATS.

• Hands-on Visualization: Teaches the creation of various graphical representations, including Pie Charts, Bar Charts, Box Plots, and Scatter Plots, to effectively communicate data insights.

• Core Classification Models: Explains the implementation of major classification algorithms like Decision Trees, Random Forest, and Support Vector Machines (SVM) for building predictive models.

• Advanced Data Mining: Covers unsupervised learning with K-Means Clustering, discovers patterns with Apriori Association Rule Mining, and identifies anomalies through Local Outlier Factor (LOF) Analysis.

• Interactive App Development: Guides the user in creating and deploying R Shiny web applications, covering UI.R and Server.R components for dynamic, shareable visualizations.

• Big Data Scalability: Introduces the concept and practical steps for Integrating R with Hadoop using the RHadoop framework, enabling users to perform analysis on massive datasets.

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Lekshmi S. Raveendran, Minu Susan Jacob, R. Sathyabama Krishna

Machine Learning Tools & Techniques

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Product Description

"Machine Learning Tools and Techniques" serves as a thorough and approachable guide, offering a comprehensive overview of essential ML concepts, tools, and methodologies crucial for navigating the modern era of artificial intelligence and big data. The book is purposefully structured to bridge the gap between theoretical foundations and practical implementation, making it a critical resource for developing intelligent systems.

The learning journey begins with core data mining principles, exploring the process, fielded applications across industries like finance and healthcare, and the foundational relationship between machine learning and statistics. It systematically builds expertise through detailed discussions on knowledge representation (including trees, linear models, and rules) and the crucial concepts of model credibility and evaluation, covering rigorous techniques like cross-validation, hyperparameter tuning, and the Minimum Description Length (MDL) principle. A strong emphasis is placed on essential data preprocessing and transformation methods, such as attribute selection and data cleansing.

Crucially, the book introduces a versatile ML tool-kit, providing hands-on application demonstrations for industry-standard platforms and libraries, including Scikit-Learn, TensorFlow, PyTorch, KNIME, and IBM Watson. This text is an ideal resource for students, researchers, and professionals seeking to gain hands-on expertise in applying cutting-edge ML solutions to develop real-world applications and contribute meaningfully to the field of AI and data analytics.

Salient Features:

• Foundational Concepts: Covers the complete data mining process, the core relationship between machine learning and statistics, and essential ethical considerations for responsible AI deployment.

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• Knowledge Representation: Detailed explanation of diverse representation methods, including decision trees, linear and rule-based models, instance-based learning, and unsupervised clustering techniques.

• Credibility and Validation: Focuses on rigorous model evaluation using techniques like cross-validation and hyperparameter selection, alongside the Minimum Description Length (MDL) principle to prevent overfitting.

• Data Transformation Methods: Explores crucial data preprocessing steps such as attribute selection, feature engineering, data cleansing, and techniques for handling multi-class data for binary classifiers.

• Algorithmic Techniques: Deep dive into predictive modeling using advanced Decision Trees, Classification and Association Rules, along with extending instance-based and local linear models.

• Practical ML Tool-Kit: Hands-on introduction to widely adopted machine learning platforms and libraries, including TensorFlow, Scikit-Learn, PyTorch, and visual tools like KNIME and WEKA.

• Real-World Applications: Features numerous fielded applications across healthcare, finance, e-commerce, and cybersecurity, including practical case studies for conceptual reinforcement.

• Refining Predictions: Discusses advanced concepts for enhancing model trustworthiness, such as evaluating numeric prediction models and calibrating class probabilities for reliable decision-making.

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Java Programming for IoT

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Product Description

JAVA PROGRAMMING FOR IOT is a comprehensive guide designed to bridge the gap between fundamental Object-Oriented Programming (OOP) concepts in Java and their practical application within the rapidly evolving landscape of the Internet of Things (IoT). The book's core purpose is to empower readers to develop complete, robust, and distributed application programs that can run across various connected systems. It meticulously covers the essentials of Java—from basic syntax, data types, and looping constructs to advanced OOP principles like Inheritance, Polymorphism, and Encapsulation.

The curriculum seamlessly transitions into specialized, high-value IoT topics. Readers will master critical methodologies such as Exceptions Handling and Multi-threading, as well as essential socket programming techniques required for effective communication with connected devices. A key focus is the Java Development Environment for IoT, offering hands-on expertise with Java ME 8 and its deployment on Raspberry Pi using the NetBeans IDE. The practical learning culminates in detailed coverage of Application Management Systems (AMS), which includes managing the application lifecycle, configuring remote devices, and implementing strategies for securing IoT applications and ensuring data integrity in real-world scenarios. This text is an essential resource for a broad audience, including students, novice programmers eager to start their IoT journey, and experienced developers seeking to master innovative, secure, and distributed IoT solutions with the robust Java platform.

Salient Features:

• Foundational OOP Skills: Comprehensive coverage of core Object-Oriented Programming (OOP) concepts in Java, including Inheritance, Polymorphism, Abstraction, and Encapsulation, essential for building robust software.

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• IoT Thread Management: Detailed units on multi-threading, thread synchronization, and managing the thread lifecycle (suspending/resuming) for building efficient and concurrent IoT Applications.

• Embedded Development Kit: Practical focus on setting up the Java development environment for IoT, utilizing Java ME 8, CLDC, and the NetBeans IDE for creating and deploying embedded applications.

• Raspberry Pi Integration: Step-by-step guidance on running the Java Runtime on a Raspberry Pi board, including using the Command Line Interface (CLI) for deployment and application testing.

• Secure IoT Deployment: Dedicated strategies for securing IoT applications and ensuring data integrity, covering topics like device authentication and the built-in security features of Java ME 8.

• Application Lifecycle: In-depth analysis of the Application Management System (AMS) for monitoring, remotely configuring, updating, and managing the entire lifecycle of deployed IoT solutions.

• Device Communication: Instruction on various socket programming methods to establish and manage communication channels, enabling Java programs to effectively interact with network-connected devices.

• Notification & Alarms: Practical modules on creating real-time event-driven notifications using PushRegistry and configuring Alarm Registration for comprehensive system monitoring in the AMS.

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Introduction to Data Science

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Product Description

In an era where data is the central driver of innovation, Introduction to Data Science offers a comprehensive and structured guide to navigating this transformative field. Designed for a broad audience including students, researchers, and professionals, this book provides a beginner-friendly approach to mastering fundamental concepts, core statistical methods, and essential predictive analytics.

The text seamlessly integrates theoretical principles with practical, real-world applications, empowering readers to not only grasp key concepts but also effectively apply them in diverse scenarios. The curriculum is meticulously structured, beginning with the foundational role and processes of Data Science and advancing through descriptive and inferential statistics, data quality management, and text data handling. It culminates by exploring the challenges and cutting-edge applications of Big Data.

The book demystifies the complete data science lifecycle—from formulating the right research questions and retrieving data to building predictive models, validating results, and deploying final applications. Beyond technical proficiency, it highlights the essential traits of a successful data scientist, such as curiosity, common sense, and communication, making it an invaluable resource for anyone seeking a robust, end-to-end understanding of data-driven decision-making in vital sectors like healthcare, finance, logistics, and AI.

Salient Features:

• Foundational Concepts: Provides a structured, beginner-friendly introduction to the field, covering the need for data science, its core components, and processes.

• Statistical Core: Delves into essential descriptive and inferential statistics, including data distribution analysis, correlation, regression, and crucial hypothesis testing techniques.

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• Data Quality Focus: Dedicated unit on enhancing data quality, covering practical methods like data imputation, standardization, binning, and handling noise and outliers effectively.

• Text Data Analytics: Explores specialized techniques for handling unstructured text data, such as Bag-of-Words, tokenization, regular expressions, and real-world sentiment analysis.

• Predictive Modeling: Introduces the critical modeling phase, emphasizing algorithm selection, execution, and essential diagnostics for building and training performant models.

• Big Data Context: Addresses the challenges and use cases of Big Data, focusing on the three critical V's: Volume, Velocity, and Variety perspective.

• Data Scientist Traits: Highlights the crucial non-technical skills for success in the field, including the importance of curiosity, common sense, and effective communication.

• Real-World Applications: Features practical use cases and business examples across diverse industries like autonomous vehicles, e-commerce, and airline logistics.

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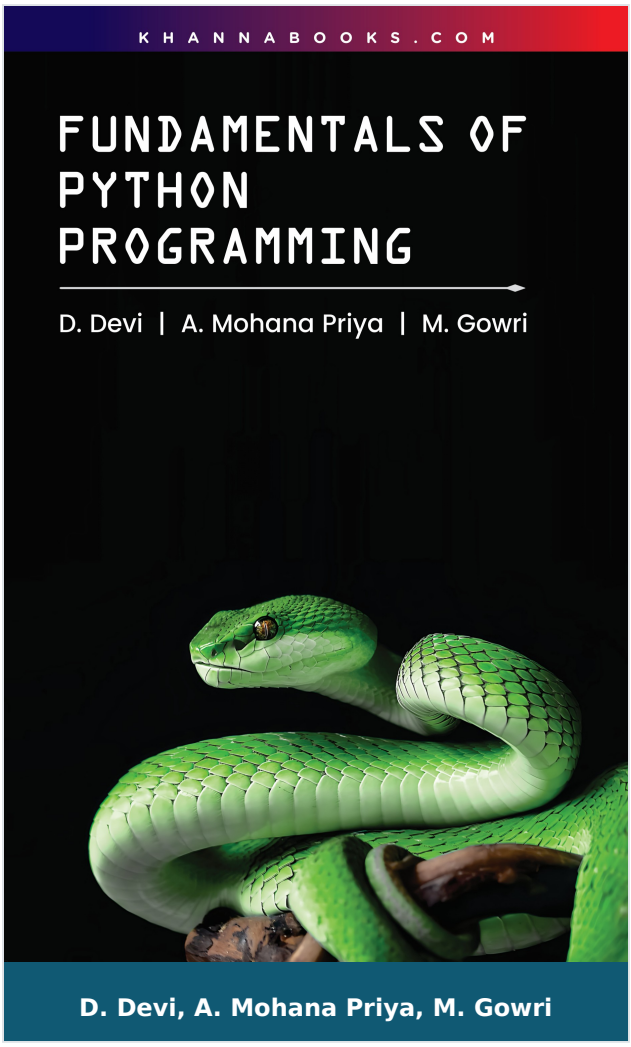
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Fundamentals of Python Programming

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Product Description

PROGRAMMING IN PYTHON is an essential, comprehensive resource designed to guide readers from foundational concepts to advanced application development in the world's most versatile programming language. The book's core purpose is to leverage Python's interpreted, high-level nature, which prioritizes readability and ease of use, making complex coding accessible to everyone. It systematically introduces the easy-to-understand syntax and covers crucial programming paradigms, including structured programming, working with data types, expressions, operator precedence, and robust Object-Oriented Programming (OOP) principles like Inheritance, Polymorphism, and Abstraction.

Beyond the fundamentals, this guide provides practical value by diving into the extensive Python ecosystem. Readers will learn to utilize major libraries like NumPy and Pandas for efficient data analysis, explore building Graphical User Interfaces (GUI) using the built-in Tkinter library, and establish database connectivity using PyMongo for MongoDB. Given Python's widespread use in web development, data science, artificial intelligence, and automation, this book is perfectly suited for a wide audience. It is an ideal textbook for students and newcomers seeking to master a powerful first language, and a valuable reference for professionals and developers looking to harness Python for real-world projects and demanding industry roles. Salient Features:

• Foundational Syntax Mastery: Provides a thorough understanding of Python's fundamental building blocks, covering basic data types, complex expressions, operator precedence, and essential control flow statements like if/else and for/while loops.

• Object-Oriented Paradigms: Explores core OOP concepts, including Inheritance, Encapsulation, and Polymorphism (method and operator overloading), with a focus on implementing Abstraction using the ABC module.

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• Data Analysis Libraries: Features detailed chapters on NumPy for efficient numerical array operations and Pandas for structured data manipulation, equipping the reader with crucial skills for data science roles.

• Interactive GUI Development: Guides the reader through creating graphical applications using the built-in Tkinter library, covering essential widgets, layout managers, and handling various user events and bindings.

• Database Connectivity: Introduces practical NoSQL database integration using the PyMongo library. Learn to connect, insert, query, update, and manage documents and entire collections in MongoDB.

• Ecosystem and Tools: A comprehensive reference to Python's rich set of built-in functions, alongside instructions for creating and importing custom modules and managing dependencies using the pip tool.

• Control Flow Structures: Detailed explanation of all sequential control structures, from traditional if-elif-else statements to modern Python match-case statements, for managing program flow efficiently.

• Real-World Applications: Showcases Python's versatility across multiple domains, including scripting for automation, scientific computing, and leveraging major frameworks for modern web development like Django/Flask

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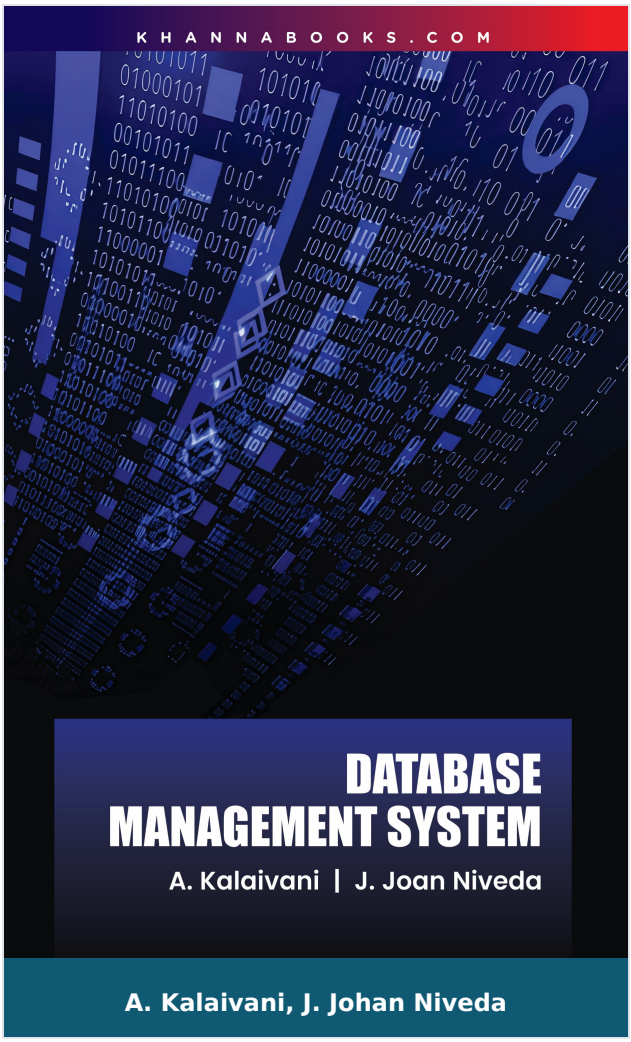
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Database Management System

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Product Description

The book, Database Management System, is an essential resource for navigating the data-driven landscape of the modern technological era. Recognizing that efficient, secure, and easily accessible data management is a critical task for all industries—from e-commerce to finance—this text provides a clear and comprehensive introduction to the field. Its core purpose is to build a strong theoretical foundation in database concepts while equipping readers with practical, real-world skills.

The text offers a structured learning pathway, commencing with foundational principles like the history, architecture, and characteristics of Database Management Systems (DBMS). It then delves into essential topics such as conceptual modeling using the Entity-Relationship (ER) model, relational schema design, and the crucial process of normalization (up to 5NF) to ensure database efficiency and data integrity. A significant portion of the book is dedicated to Structured Query Language (SQL), covering DDL, DML, DCL, and TCL commands, query execution, optimization, and transaction processing, including the vital ACID properties. Critically, the book extends beyond traditional relational systems to address modern trends, dedicating a chapter to Concurrency Control, Recovery Techniques, and NoSQL DBMS.

Intended for undergraduate students in Computer Science, IT, and Data Science, this book is also an invaluable reference for software engineers and data analysts seeking to refine their skills. Through numerous step-by-step explanations, hands-on exercises, and practical implementations using real-world scenarios, the book successfully bridges the gap between academic theory and industry application, preparing readers for real-world database challenges.

Salient Features:

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• ER & Relational Modeling: Presents in-depth coverage of the Entity-Relationship (ER) model and systematic procedures for mapping ER diagrams to a relational schema, incorporating all essential integrity constraints.

• Schema Refinement: Offers a detailed exploration of functional dependencies and normalization techniques (up to 5NF). This knowledge ensures the creation of efficient, scalable database designs that minimize redundancy and anomalies.

• Comprehensive SQL: Provides hands-on instruction for mastering all facets of Structured Query Language (SQL), including DDL, DML, DCL, and TCL commands, complex joins, and advanced subqueries.

• Query Optimization: Dedicated unit on query processing, covering the translation of SQL into relational algebra, and heuristic optimization techniques to improve data retrieval speed and database performance.

• Transaction Integrity: Focuses on the fundamental principles of transaction processing, detailing the ACID properties (Atomicity, Consistency, Isolation, Durability) and methods for ensuring recoverability and serializability.

• Concurrency & Recovery: Explores advanced techniques like Two-Phase Locking (2PL), timestamp protocols for concurrency control, and robust recovery mechanisms such as deferred updates and shadow paging.

• Practical Hands-on Learning: Features dedicated "Practical" sections in every chapter, providing step-by-step implementation of SQL commands, schema design projects, and application of NoSQL data models using industry tools.

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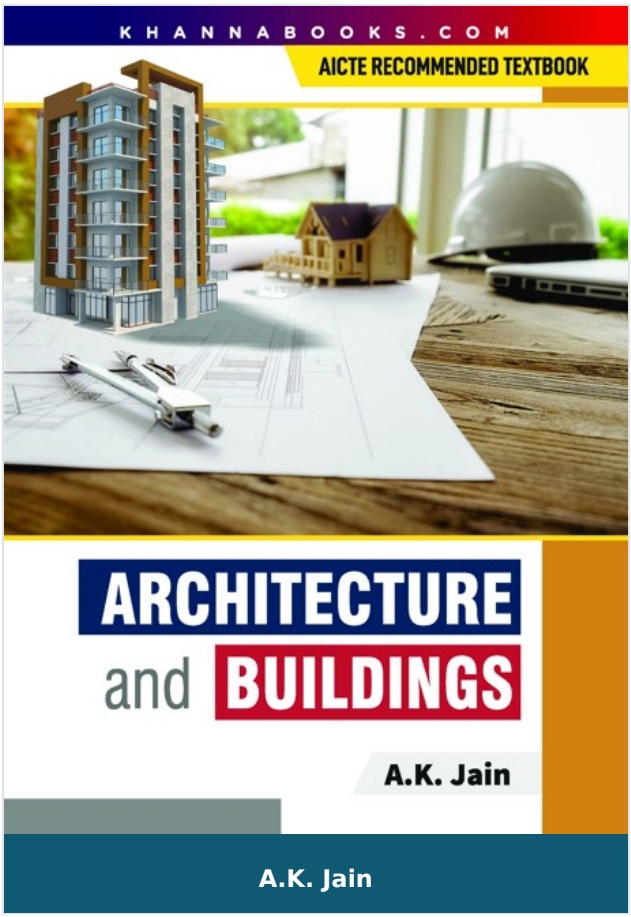
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Architecture and Buildings

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Product Description

ARCHITECHTURE and BUILDINGS: An architect is defined as master builder, one who design buildings and superintends their erection, and the architecture as the art and science of the buildings. Architecture is one of the few professions which strike a balance between technical, artistic, practical, economic and social considerations.

Every building is a part of ecological system and has a footprint It means taking a wide-angle view of the architecture in the context of urbanism, ecology and environment, including, bio-diversity and natural resources, water and energy. As such, architecture is changing from functional to organizational, from architectonic to urbanism and from building' provides a comprehensive and narrative on history of architecture, Indian architecture, vaastu, the basic of design, green building, building resources and technology, planning and design .

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- Building Design for Climatic and Thermal Comfort
- Sustainable and Resilient Habitat
- Building Resources and Technology
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- Barrier Free Architecture
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A.K. Jain, as Commissioner (Planning) Delhi Development Authority worked on the Master Plan for Delhi-2021, National Urban Housing and Habital Policy, National Urban Transport Policy and various urban projects. He was a member of the Committee Constituted by the Ministry of Urban Development, GOI to review the statute of the Delhi Development Authority vis-a-vis the changing urban scenario and new policy initiatives. As a member of editorial Board of International Journal of Environmental Studies (UK) and is author of several books on urban development and management. He is visiting faculty at Delhi School of Planning and Architecture and other Institutes. He was awarded 2nd Urban

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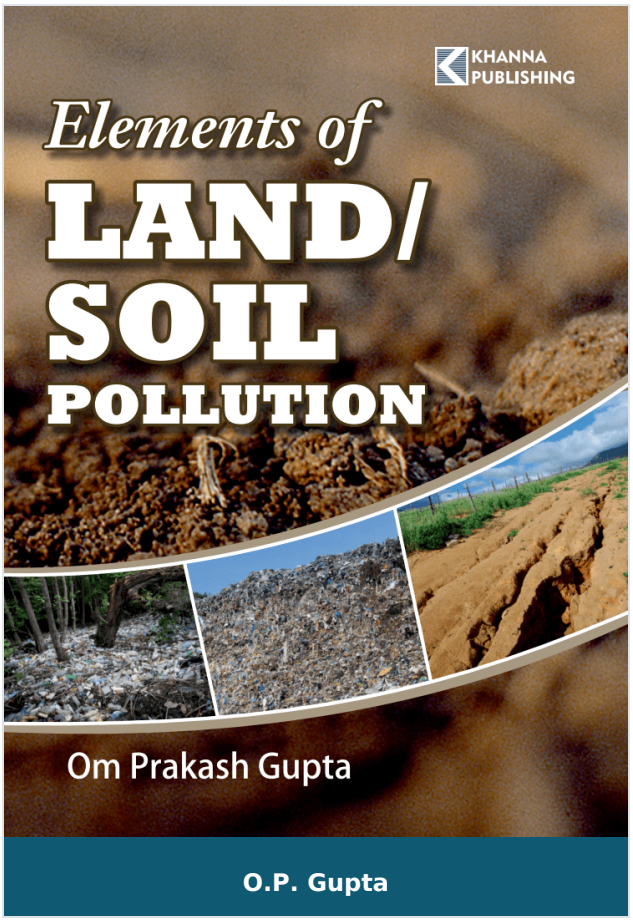
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Professional Award 2014 at World Urban Forum in Medellin, Colombia in recognition of being an exemplary city changer. Union Minister for Urban Development hourured him with IBC Lifetime Achievement Award (2016).

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Elements of Land/Soil Pollution

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Product Description

This book contains detailed description of sources, effects and control of soil pollution spanning over five chapters. Besides, it also contains two chapters devoted to short questions & answers and multiple choice questions & answers drawn from the examination papers of various engineering colleges for the benefits of the students. Last chapter contains glossary of terms related to soil pollution. The book will be useful for degree & diploma curriculum of various branches of engineering and for various associate membership examinations conducted by professional bodies like Institution of Engineers (AMIE), Indian Institute of metals (AMIIM), Indian Institute of Chemical Engineers (AMIIChE), etc.

SALIENT FEATURES OF THE BOOK:

Subject matter has been presented in simple, lucid & understand language. Cover all the topics included in the syllabus of various engineering colleges/Technical Institutes & professional bodies examination papers. Short questions & answers and multiple choice questions & answers drawn from the examinations given at the end of the book enhances its utility for the students.Up to date statistics and glossary of terms related to the subject have been included.

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Author

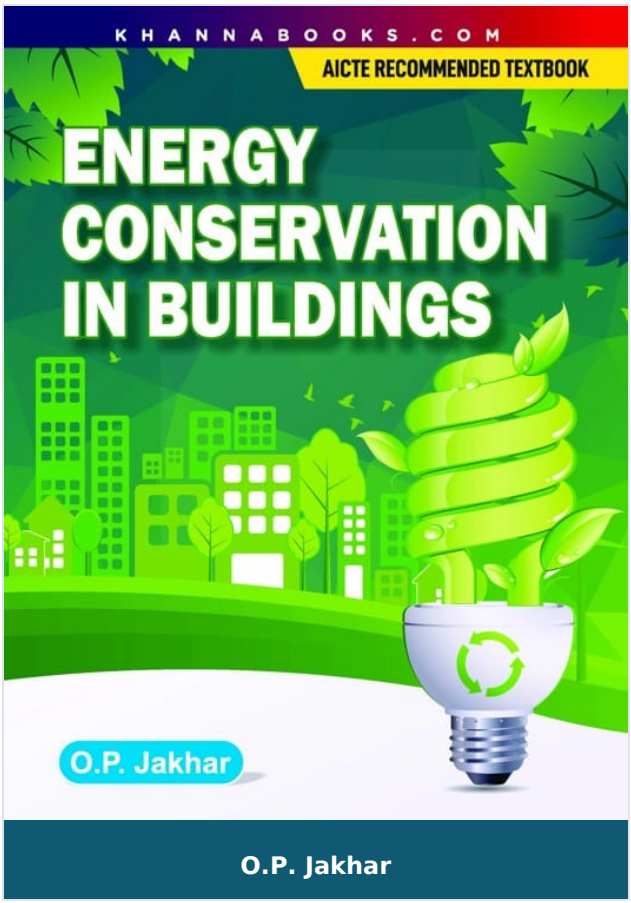
O.P. Gupta

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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O.P. Jakhar

Energy Conservation in Buildings

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Product Description

This book has the basic motive to guide the postgraduate and research students working in the field of energy conservation. This is to cater the strong need felt by the students pursuing the course on energy Conservation in Buildings during their M. Tech. and PhD studies. I have tried to compress the subject matter from the view point of research students. The different simulation techniques, such as Power DOC-2, BSIM 2000, e-Quest, which are extensively used in the energy conservation in buildings, have been added for quick references.

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- Chapter-2: History of Energy Conservation in Building
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- Chapter-5: Passive cooling Methods for Building in Hot and Dry Climate
- Chapter-6: Energy Auditing and Radiation Cooling of Building in hot and Dry Climate
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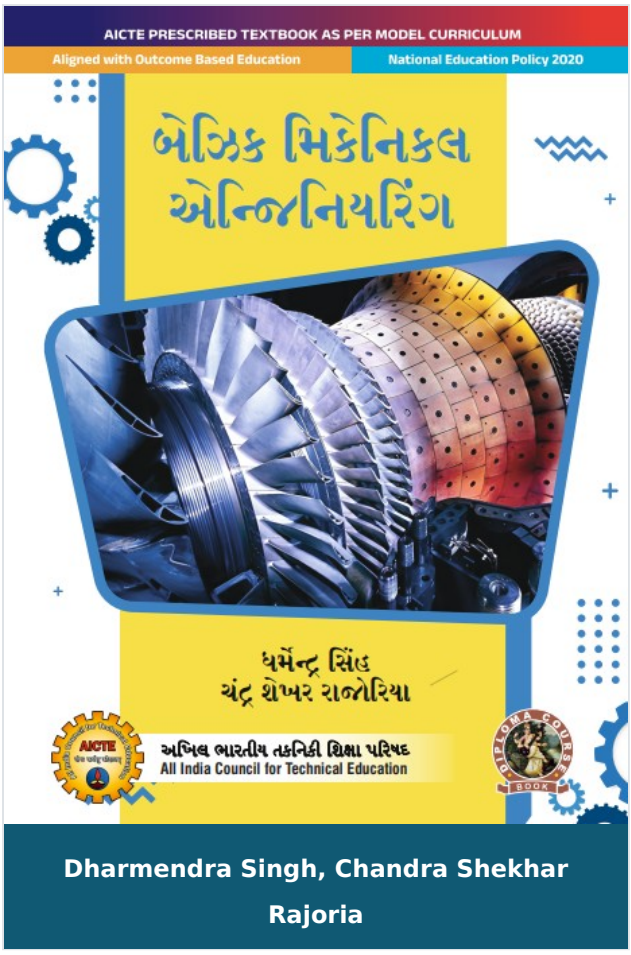
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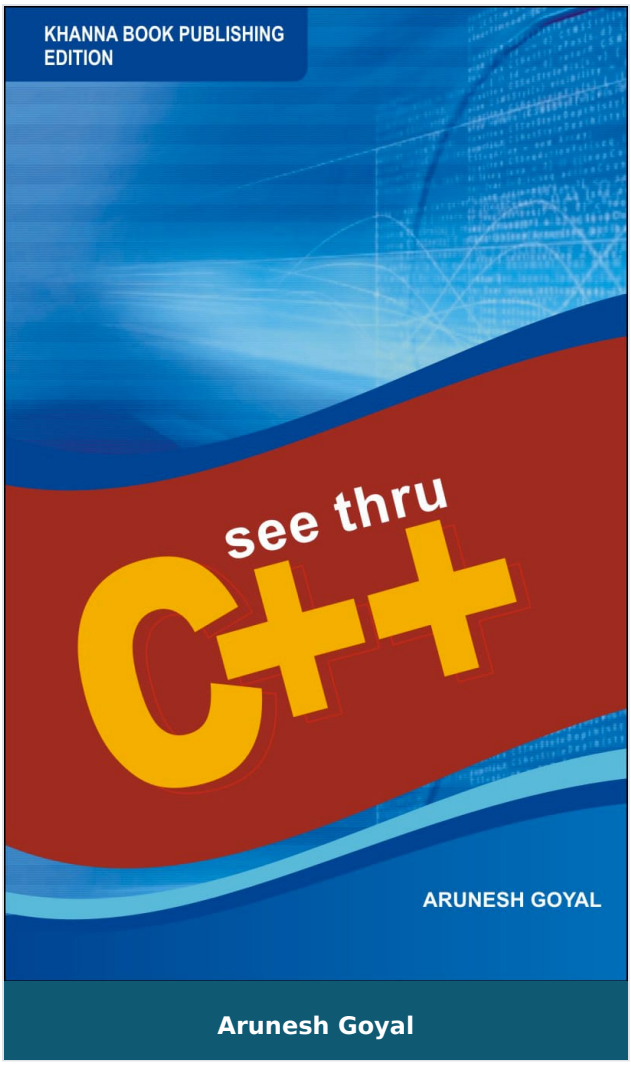
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See Thru C++

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Product Description

One of the major features is that the book teaches C++ without any repetition of topics already learned in C. An all out effort has made to keep it, simple, short & interesting; The sample examples and practical sessions have been suitably designed to corroborate the corresponding theory. Both the theoretical and practical aspects of programming have been kept in mind. Wherever required, the book explains with the help of diagrams, flowcharts, tables etc. the relevant topics. concepts of classes, objects, exception handling, templates, and virtual functions are discussed in a manner that students of all streams can easily understand such complex topics. C++ streams and class libraries are introduced in an easy-to understand language. Implementation of inheritance, encapsulation, operator overloading and dynamic or run-time binding is explained using simple examples. A large number of explanatory diagrams are also a salient feature of the book. Several interesting appendices including "ANSI C++: New feature", "event driven processing", "Typical problems" and "case students" have been included. The also carries a Bibliography (both C & C++) for interested readers. A stand out and a novel feature of the book is its, winding it Up! section at the end of every chapter that not only sums it up but also arouses the readers' interest in the subject matter introduced therein. The book contains a rich repertoire of the object-oriented computer jargon in its glossary section.

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- Exception Handling
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- Working with the String Class

Author

Arunesh Goyal

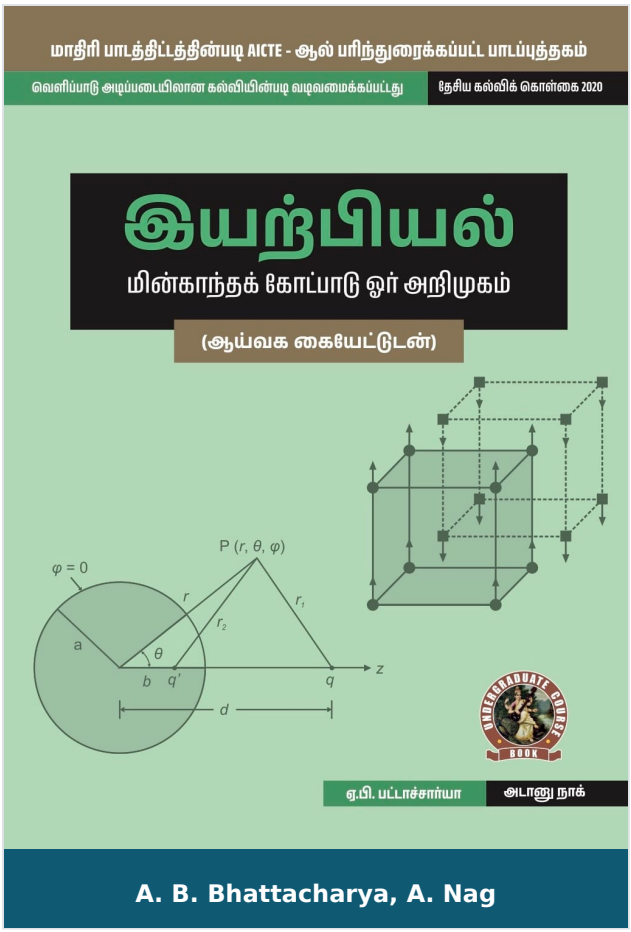
Arunesh Goyal is a topper from University of Delhi {B.Sc. (H) Mathematics: Kirorimal College. North Campus}. He has been personally awarded by Mr. Amitabh Bachchan. He is also a First Division MCA degree holder from the same university. Besides, he has worked as Computer Analyst/Consultant at St. Stephen's Hospital, Delhi for more than 10

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Physics (Introduction to Electromagnetic Theory) (with Lab Manual)

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Product Description

Engineering Physics: Introduction to Electromagnetic Theory has been written for the first year students of B. Tech Engineering Degree Courses of all Indian Universities following the guideline and syllabus as recommended by AICTE. The book, written in a very simple and lucid way, will be very much helpful to reinforce understanding of different aspects to meet the engineering student’s needs Writing a text-cum manual of this category poses several challenges providing enough content without sacrificing the essentials, highlighting the key features, presenting in a novel format and building informative assessment. This book on engineering physics will prepare students to apply the knowledge of Electromagnetic Theory to tackle 21st century and onward engineering challenges and address the related questions.

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