

Programming in Python

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Product Description

This comprehensive textbook, The Complete Guide to Programming in Python, is a foundational resource designed to transform absolute beginners into proficient Python developers. The core theme of the book is simplicity meets versatility: Python's global popularity is rooted in its highly readable syntax and its powerful application across diverse fields like web development, data science, and automation.

The book's primary purpose is to deliver a systematic, hands-on learning experience. It begins by establishing the fundamentals—such as the easy-to-understand syntax, diverse expression types, and key data structures like Numeric, Sequence (Lists, Tuples), and Mapping (Dictionaries)—before seamlessly progressing to advanced topics. Readers will master essential control flow techniques, including conditional statements (if/elif/else, match-case) and iterative loops (for/while), and learn to structure complex code using Object-Oriented Programming (OOP) principles (Inheritance, Polymorphism). The practical value is reinforced by specialized units on handling errors through robust exception handling, interacting with the PyMongo database, and building visually appealing applications using Tkinter. The target audience includes students in computer science, newcomers to programming, and professionals from any domain who require a solid, application-focused grounding in one of the world's most demanded programming languages.

Salient Features:

• Foundational Syntax Mastery: An ideal starting point covering all of Python's core features, from its easy-to-understand syntax and diverse expression types (Arithmetic, Logical) to detailed rules for operator precedence.

• Comprehensive Data Structures: A dedicated section that thoroughly explores all built-in data types: Numeric (int, float), Sequence (list, tuple, string), Mapping (dict), and Set

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types, complete with practical code implementations.

• Control Flow and Logic: Offers full coverage of flow control mechanisms, from basic if-else and nested conditions to the modern match-case statement, ensuring the ability to write robust program logic.

• Essential Built-in Functions: Provides an extensive, tabulated reference of over 50 vital built-in functions, each accompanied by practical code snippets demonstrating its correct usage and return value.

• OOP Principles Explained: Delivers clear, practical instruction on Object-Oriented Programming, covering Inheritance, Polymorphism (Overriding, Overloading), and Data Abstraction using Python-specific examples.

• Ecosystem and Libraries: Introduces the vast Python ecosystem, detailing how to create and use custom modules and presenting key external libraries like NumPy and Pandas for data manipulation.

• GUI Application Development: Step-by-step guidance on creating rich Graphical User Interfaces (GUIs) using the standard Tkinter library, thoroughly covering layout managers and all essential widgets.

• Practical Database Integration: Hands-on instruction for connecting to and performing full CRUD (Create, Read, Update, Delete) operations on a NoSQL database, specifically using the PyMongo library for MongoDB.

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Table Of Contents

- Introduction to python
- Operating on File
- GUI Programming
- Database and Networks

Author

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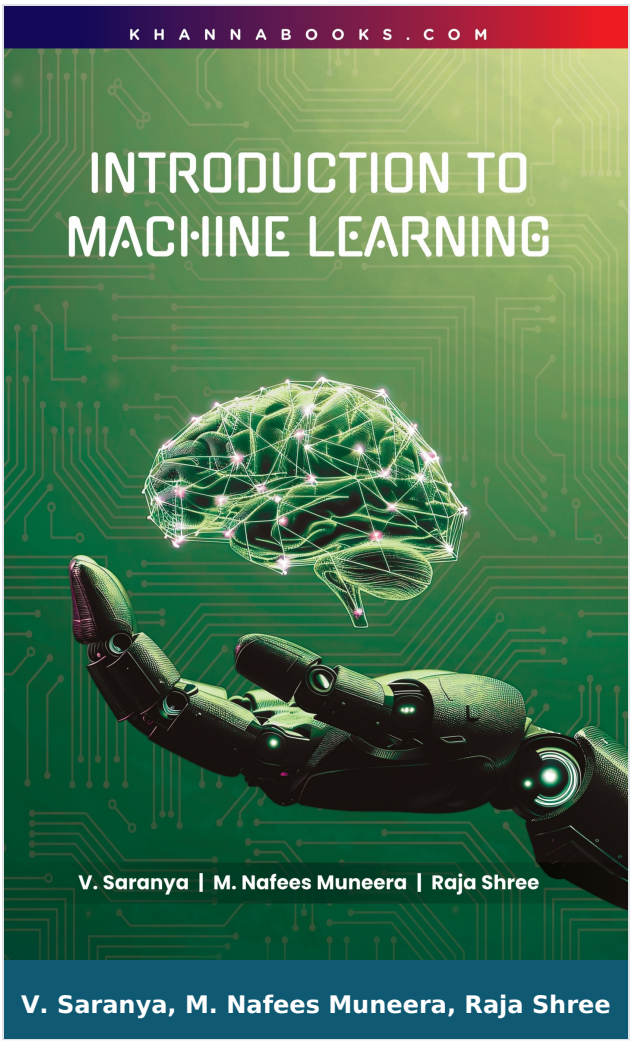
Saraswathi

Saraswathi Devi for given me the support and encouraging me to achieve goals successfully. I co-authored books on "Computer Fundamentals", Data Science with Machine Learning using R. Dr. K. L. Vasundhara, HOD & Assoc. Professor, Dept. of Mathematics, Thank my Mentor Prof. M. V. Ramana Murthy (Former Head and BOS Chairman, Dept. of Mathematics and Computer Science, OU, Hyderabad) for his guidance, time, ideas and help. I am greatly indebted to Sri Krishna Rao (Correspondent, Stanley College of Engineering and Technology for Women, Hyderabad) for his support. It is imperative on my behalf to remember my behold Mother Late Smt. K. Varalakshmi and my Father-in-Law Late Sri. Yerasuri Gopala Krishna Murthy for their divine blessings. Recipient of "UTTAMA ADYAPIKA AWARD" 2022, " JYSTA ACH ARNA AWARD" 2024 and authored 16 papers in various National & International Journals, Co- authored books on " Engineering Mathematics-IV", "Data Science with Machine Learning using R". AICTE nominated expert for Data Analytics and having 6 Patents. Prf.

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Introduction to Machine Learning

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Product Description

The book, INTRODUCTION TO MACHINE LEARNING, is an essential guide meticulously designed to provide a comprehensive, progressive, and practical foundation in the field of Machine Learning (ML). In the rapidly advancing “data era,” ML has become an integral part of modern advancements across healthcare, finance, autonomous systems, and artificial intelligence. This textbook is dedicated to crafting a strong foundational understanding of the principles, techniques, and real-world applications that drive these intelligent systems.

The core purpose of this book is to bridge the gap between theoretical understanding and practical application. It begins with the fundamental concepts of ML, its categories (supervised, unsupervised, semi-supervised, and reinforcement learning), and essential data preprocessing techniques. The journey progresses through the crucial mathematical backbone, including probability, distributions, and the Naive Bayes Classifier. It then thoroughly explores core supervised algorithms like Linear Regression and Support Vector Machines (SVM), and dives into unsupervised methods such as K-Means clustering and Principal Component Analysis (PCA). Finally, it addresses advanced concepts in model optimization through ensemble methods like bagging, boosting, and stacked generalization.

This resource is an invaluable companion for students building their academic foundation, researchers seeking clear insights, and professionals aiming to integrate ML into their work. The content is structured with clarity and is supported by well-illustrated examples, making it suitable for both beginners and experienced learners who wish to master the application of ML techniques effectively in various domains.

Salient Features:

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• Foundational Principles: Provides a solid, structured introduction to Machine Learning, its core concepts, types (supervised, unsupervised, etc.), and the critical bias-variance tradeoff.

• Essential Preprocessing: Covers crucial initial steps of the ML workflow, including noise removal, normalization techniques, and an understanding of data quality challenges.

• Statistical Backbone: Dedicated unit on the mathematical foundations, including random variables, probability distributions, Bayes' Theorem, and the Naive Bayes Classifier Algorithm.

• Supervised Algorithms: Detailed coverage of key supervised methods like Linear Regression, Lasso Regression, Logistic Regression, Support Vector Machines (SVM), and K-Nearest Neighbors (KNN).

• Unsupervised Deep Dive: Explores clustering techniques (K-Means, K-Medoids, DBSCAN), dimensionality reduction with PCA, Outlier Analysis, and an introduction to Reinforcement Learning.

• Model Evaluation: Discusses essential evaluation metrics for both regression and classification tasks, ensuring readers can accurately measure and validate their model performance.

• Advanced Optimization: Focuses on model generalization and optimization using ensemble learning, covering techniques like Bagging, Boosting, Stacked Generalization, and Cascading.

• Practical Application: Emphasizes practical skills and insights necessary for applying ML techniques effectively in real-world scenarios across various domains, supported by clear examples.

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Table Of Contents

- Introduction to Machine Learning
- Basic Mathematical Concepts for Machine Learning
- Supervised Learning
- Unsupervised Learning
- Generalization and Optimization

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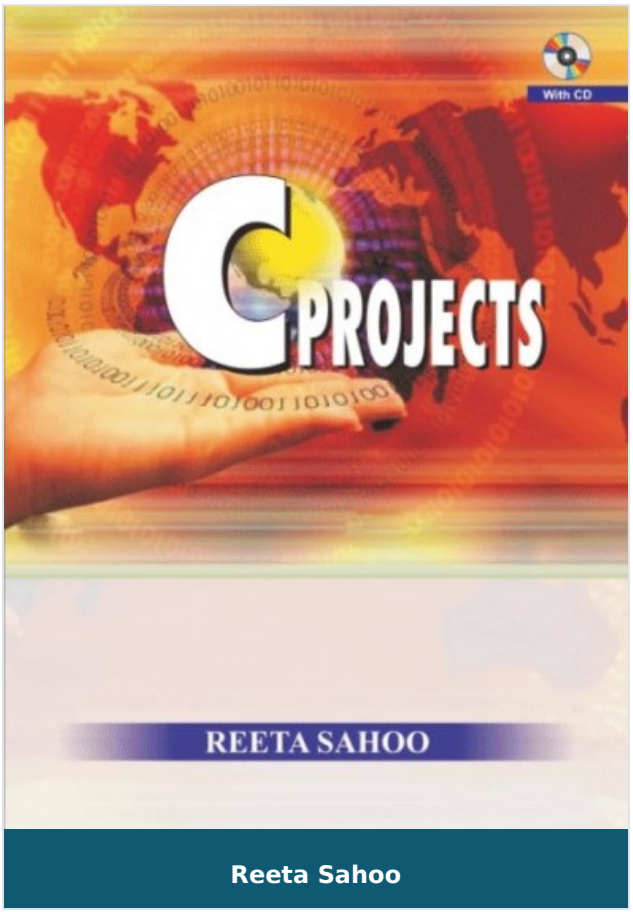
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Reeta Sahoo

C Projects

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Product Description

This book has total 13 chapters on different projects and two appendices. In all the chapters the project development idea has been discussed with individual project concerned. Also almost in very chapter there are some functions of graphics commands and operational knowledge is emphasized to make good demonstration to the projects. whereas the graphics section are implemented in different functions only.

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Table Of Contents

- Introduction
- Restaurant Billing System
- Electronic Voting System
- Banking System
- Pay Manager
- Library Management System
- Music Shop Management
- Year Calendar
- Drawing Logo
- Bricks Game
- Charts and Graphs
- Graphics Demo
- Utility Services

Author

Reeta Sahoo

Reeta Sahoo is an author of various books including, C++, VB, Java. Since last 10 years, she has lots of experience in different computer project works. She has written number of schoolbooks including C++, Visual Basic, Java, etc. This book helps lots to the beginner's who want to develpo programming skill in C++ language.

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Internet of Things

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Product Description

Internet of Things

This comprehensive textbook, Internet of Things (IoT), serves as an essential guide to the disruptive technological network that is reshaping the physical and digital worlds. Moving beyond simple connectivity, the book provides a robust, unit-by-unit exploration of the entire IoT ecosystem, from the foundational hardware components to the advanced data analytics that drive decision-making.

The core theme is the intelligent integration and automation achieved by linking physical objects via sensors, actuators, and communication protocols. Its purpose is to equip readers with both theoretical knowledge—covering complex topics like reference architecture, protocols (MQTT, CoAP), and cloud service models (IaaS, PaaS, SaaS)—and practical, real-world application insights. Readers will learn how IoT transforms industries through technical optimization, waste reduction, and enhanced customer engagement.

The target audience includes undergraduate and graduate students in Computer Science, Electronics, and Information Technology, as well as researchers and industry professionals seeking to design, implement, or manage scalable IoT solutions. With dedicated sections on Big Data Analytics, Industry 4.0 concepts, and hands-on projects using platforms like Raspberry Pi and Arduino, this book offers a complete and engaging framework for understanding the future of interconnected technology.

Salient Features

- **Foundational Concepts**: Provides a solid grounding by exploring the evolution from Machine-to-Machine (M2M) communication to the full Internet of Things, detailing key benefits like technical optimization and waste reduction.
- **System Architecture**: Offers a comprehensive, layered reference architecture covering the Device, Communication, Aggregation, and Data Analysis layers, along

with lightweight protocols like MQTT and CoAP.

- **Embedded Components**: Focuses on the physical layer, including the function and use of various sensors and actuators, alongside the crucial design of embedded systems and gateways for IoT devices.
- **Cloud Integration**: Discusses the convergence of IoT and Cloud Computing (IaaS, PaaS, SaaS) for scalable data management, featuring in-depth analysis of major platforms like AWS IoT and IBM Watson.
- **Big Data Analytics**: Contains a dedicated unit on managing the high Volume, Variety, and Velocity of IoT data, covering general data architecture and practical data visualization tools.
- **Development Boards**: Includes practical guidance on implementing projects using popular hardware platforms like Raspberry Pi, Arduino, and Intel Galileo, catering to hands-on learning and prototyping.
- **Business & Industry 4.0**: Outlines the vast business scope of IoT, covering concepts like Industry 4.0, economic transformation, and the new Information-Driven Global Value Chain (I-GVC).
- **Security & Threats**: Addresses critical challenges such as security threats (e.g., DDoS attacks) and the need for robust Identity and Access Management within the distributed and scalable IoT ecosystem.

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Table Of Contents

- Introduction to IoT
- IoT Connectivity and Hardware Platforms
- Communications and Connective Technologies
- Big Data Analytics
- Hands-On Projects

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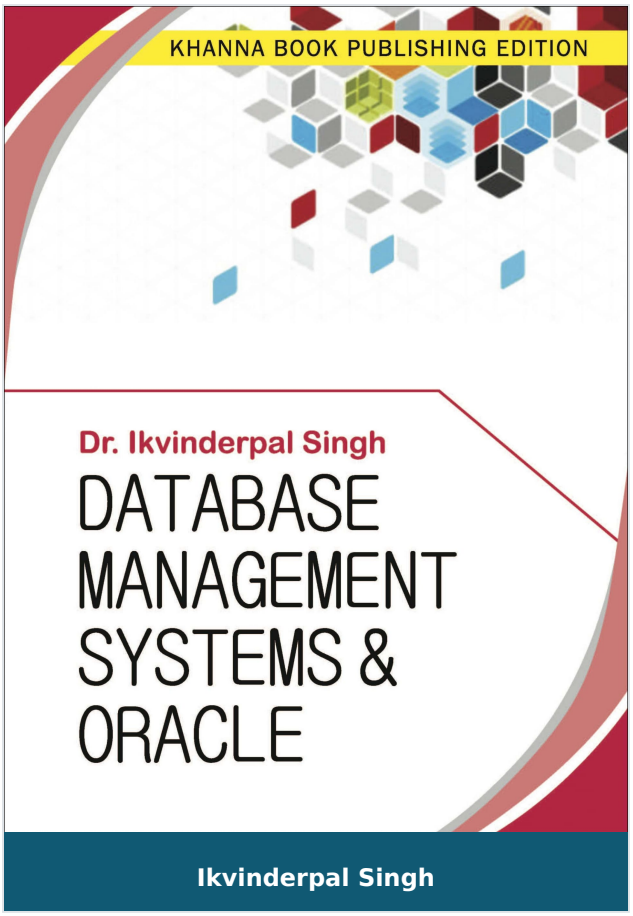
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Database Management Systems & Oracle

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Product Description

The database in now the underlying framework of the information system, and has fundamentally changed the way many organizations operate. In particular, the developments in this technology over the last few years have produced systems that are more powerful and more intuitive to use. this has resulted in database systems becoming increasingly available to a winder variety of users. the objectives of this book, therefore, are to provide a textbook that introduces the theory behind database as clearly as possible and, in particular, to provide a methodology for database design that can be used by IT professionals, such as systems analysts or designers, application programmers, systems programmers, database practitioners, and for for independent self-teachers.

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Table Of Contents

- Database Concepts
- Data Models
- Entity Relationship Model
- Relational Database Model
- Relational Algebra And Calculus
- Normalization
- Transaction Processing
- Concurrency Control
- Database Recovery
- Database Security And Integrity
- Distributed Databases
- Oodbms and Kbms
- UNIT-I
- Introduction To Oracle
- Introduction To Sql
- More On Sql
- Sql Performance Tuning
- UNIT-2
- Introduction To Pl/Sql
- Pl/Sql Datatypes
- Pl/Sql Control Statements
- Pl/Sql Transactions And Concurrency Control
- Pl/Sql Cursors

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- Pl/Sql Subprograms
- Pl/Sql Database Triggers
- Handling Pl/Sql Errors

Author

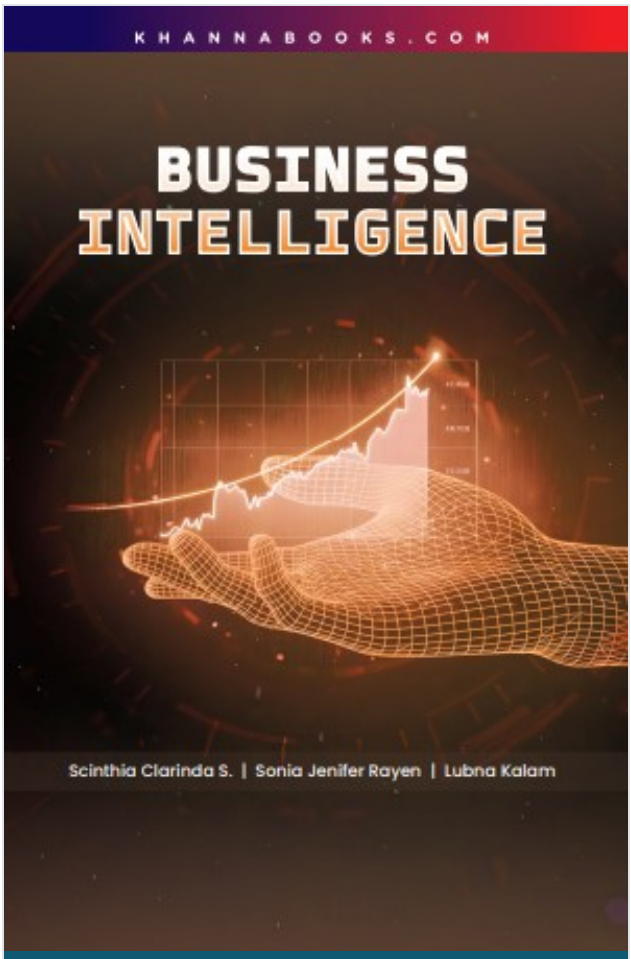
Ikvinderpal Singh

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

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Scinthia Clarinda S., Sonia Jenifer Rayen, Lubna Kalam

Business Intelligence

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Product Description

Business Intelligence

This book, BUSINESS INTELLIGENCE, stands as an essential and comprehensive resource for professionals and students seeking to master the principles of data-driven decision-making. The core theme is the systematic use of technology, processes, and tools to convert an organization's raw data assets into actionable insights that drive improved operational performance and strategic foresight. It offers a rigorous, yet accessible, exploration of key BI concepts, covering the distinction between Data, Information, and Intelligence and the fundamental components of BI Architecture, including Data Warehousing, OLAP, and the crucial ETL process.

The practical value of this text is demonstrated through its detailed coverage of the BI Life Cycle, the implementation challenges organizations face, and the necessity of developing a strategic BI Roadmap. It uniquely integrates advanced topics like predictive analytics and the role of organizational culture in BI success. Designed for learners, practitioners, and researchers—from casual business users to professional data analysts—this book is an indispensable asset for anyone committed to leveraging data for business growth and a competitive advantage.

Salient Features:

- **BI Architectural Core**: Details the components of BI architecture like Data Warehousing and OLAP (Online Analytical Processing), showing how they enable rapid, multidimensional data analysis.
- **ETL Process Mastery**: Provides a deep dive into the Extract, Transform, Load (ETL) mechanism, detailing critical steps like data cleaning, filtering, and standardization necessary for building a robust Data Warehouse.

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- **Strategic Planning**: Explores the importance of developing a comprehensive BI Strategy and Roadmap, outlining essential steps for implementation, risk assessment, and achieving a clear Return on Investment (ROI).
- **User-Centric Design**: Focuses on end-user segmentation and the creation of user-friendly dashboards and scorecards. This ensures that complex data is accessible for informed decision-making.
- **Emerging Technology**: Covers the future of Business Intelligence, including the integration of AI/Machine Learning for automated analysis, cloud-based analytics, and real-time data processing.
- **MSBI Toolset**: Offers practical insights into the Microsoft Business Intelligence (MSBI) suite, specifically detailing tools like SSIS (ETL), SSAS (OLAP/Data Mining), and SSRS (Reporting).
- **Predictive Analytics**: Explores advanced analytical techniques like Data Mining and Statistical Analysis to uncover hidden patterns and develop predictive models for future business forecasting.
- **Implementation Challenges**: Discusses critical issues and challenges that organizations face, such as data quality issues, implementation complexity, and the Total Cost of Ownership (TCO).

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Table Of Contents

- Business Intelligence Introduction
- Business Intelligence Life Cycle
- Business Intelligence User Model
- Business Intelligence Issues and Challenges
- Business Intelligence Strategy and Roadmap

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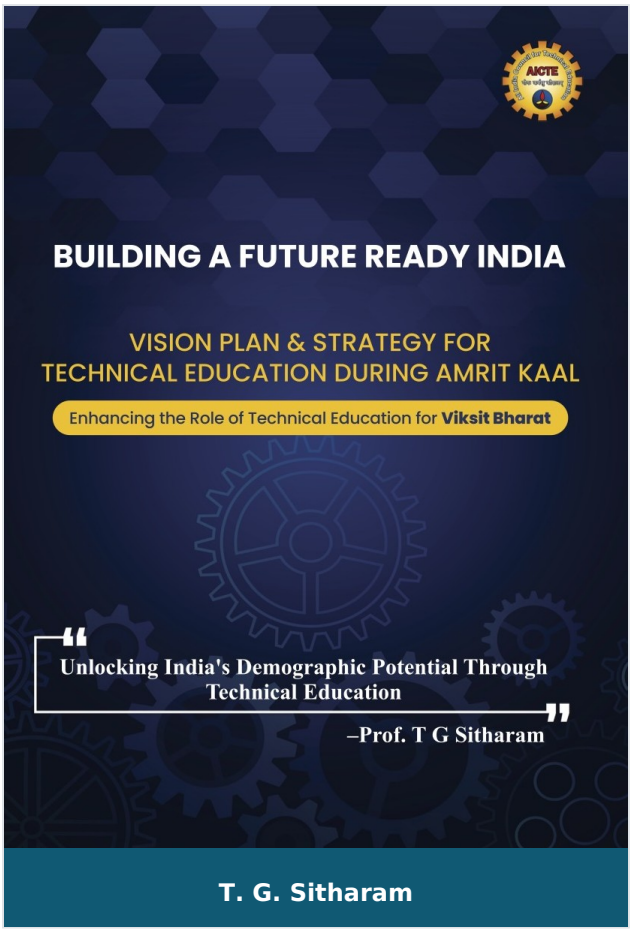
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Building a Future Ready India

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Product Description

In the rapidly evolving landscape of technical education, the year 2047 stands as a pivotal juncture for India. Th is book delves into the transformational journey of technical education over the past few decades, offer insights on vision, plan and strategy for technical education in India, harness the potential of technical education in nation building and foresight into the innovations, challenges, and possibilities that have defined this dynamic era. The significance of technical education has soared to unprecedented heights in the last few years. India envisions a holistic Technical Education System that produces globally competitive skilled technical professionals. With the rise of artificial intelligence, quantum computing and sustainable engineering solutions, a paradigm shift is necessary to impart skill based knowledge and prepare future generations. This book is an attempt to understand the key elements of Technical Education which includes ‘Quality Education, Leveraging Technology, Integration of Skill in Curriculum, Promotion of R&D, Innovation in Pedagogy, Industry- Academia Collaboration etc. Drawing upon the collective wisdom of visionaries, educators, and pioneers in the field, this book endeavors to illuminate the transformative forces shaping technical education. It seeks to inspire educators, students, policymakers, and innovators alike to envision and concreate a future where learning is agile, inclusive, and empowers individuals to thrive in an ever-evolving world.

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Table Of Contents

- Executive Summary.
- Importance of Technical Education.
- Overview of Growth of Technical Education in India.
- Vision for Technical Education in India by 2047.
- Challenges Faced in Technical Education & How to Overcome Them.
- Impact of Technical Education on Achievement of SDG Goals.
- Enhancing Role of Govt. & Technical Education in Nation Building.
- Best Practices in Technical Education from Around the World.
- Need for Curriculum Reform & Building Robust Research Ecosystem.
- Enhancing Quality of Technical Education through Accreditation and Quality Assurance.
- Attracting and Retaining Talented Faculty for Technical Education.
- Developing Skilled & Job-Ready Workforce through Technical Education.
- Addressing Issues of Equity, Diversity, and Inclusion in Technical Education.
- Leveraging Technology to Enhance Teaching and Learning in Technical Education.
- Importance of Industry-Academia Collaboration in Technical Education.
- Promoting Entrepreneurship and Start-up Culture through Technical Education.
- Building a Global Reputation for Technical Education in India.
- Role of NGOs, Private Sector in Technical Education in India.
- Leveraging Digital Platforms to Enhance Technical Education.
- Developing Sustainable Infrastructure for Technical Education in India.
- Strengthening Technical Education in Emerging Fields such as AI, IoT, Robotics, Cyber security, Quantum computing, Data analytics, UI/UX.
- Bridging the Skill Gap through Apprenticeship and Internship Program.

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- Role of Incubation Centers & Accelerators in Supporting Start-ups.
- Innovation in Pedagogy & Assessment Techniques for Technical Education.
- Enabling Entrepreneurial Mindset through Technical Education.
- Th e Role of Mentorship and Career Guidance in Technical Education.
- Developing Institutional Autonomy for Technical Education in India.
- Th e Need for Multi-Sectoral Partnerships for Technical Education.
- Building a Culture of Research and Innovation in Technical Education Institutions.
- Addressing the Challenges of Rural Technical Education in India.
- Importance of Financial Aid and Scholarships in Technical Education.
- Addressing Needs of Differently-Abled Students in Technical Education.
- Importance of Soft Skills & Higher Order Th inking Skills.
- Addressing the Challenges of Online and Hybrid Technical Education.
- Effective Monitoring & Evaluation Framework for 2047 Strategy.
- Various Initiatives of All India Council for Technology for the betterment of Students.
- Technical Education Action Plan.
- Glimpses of AICTE Activities in 2023.
- Action Plan For Technical Education in Amritkaal.
- Conclusion.
- About the Author.

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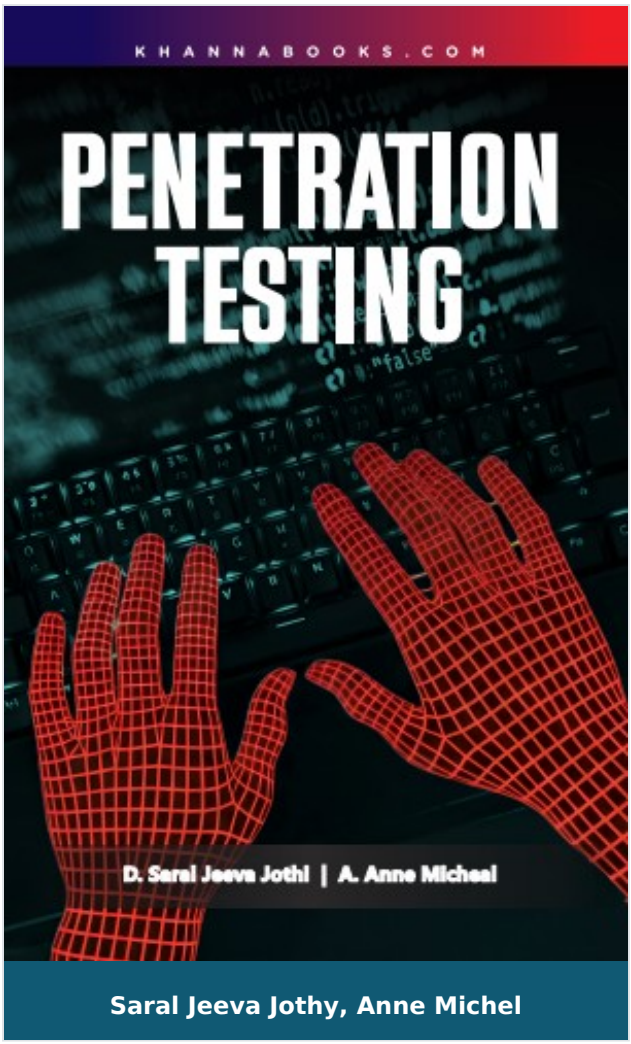
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elected fellow of Indian Geotechnical Society, Institution of Engineers (India) and American Society of Civil Engineers.

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Saral Jeeva Jothy, Anne Michel

Penetration Testing

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Product Description

Penetration Testing

In today's digital age, where cyber threats are constantly evolving, Penetration Testing—often referred to as ethical hacking—is the most crucial practice for identifying and addressing security vulnerabilities.

Penetration Testing is designed to provide a comprehensive understanding of the field and its methodologies. This book offers a systematic approach to simulating cyberattacks on systems to uncover weaknesses before malicious hackers can exploit them. Readers will gain the theoretical knowledge and hands-on experience necessary to conduct effective security assessments in a controlled, ethical, and legal manner.

You will master the entire pen testing lifecycle: from initial reconnaissance and exploitation to post-exploitation and delivering a detailed, actionable report. By emphasizing practical skills and real-world tools, this resource prepares students and professionals alike to confidently secure systems and ensure compliance with critical industry regulations like PCI DSS, GDPR, and HIPAA.

Salient Features:

- **Foundational Knowledge**: Introduction to the basic principles of Cryptography, including detailed coverage of algorithms like AES, DES, RSA, and SHA.
- **Methodology Mastery**: In-depth discussion of the three major penetration testing approaches: Black Box, White Box, and Grey Box, and when to choose each method.
- **Five-Phase Process**: Step-by-step guidance through the entire pen testing procedure, covering Planning & Reconnaissance, Scanning, Gaining Access, Post-Exploitation, and Reporting.
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- **Compliance and Ethics:** Comprehensive coverage of the Ethical and Legal Considerations required to conduct penetration tests responsibly, ensuring tests adhere to governance frameworks.
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Table Of Contents

- Preface
- Introduction to Penetration Testing
- Penetration Testing Methodologies
- Phase of Penetration
- Penetration Testing with Internet Works
- Penetration Testing in Linux, Window

Author

Saral Jeeva Jothy

Saral Jeeva Jothy

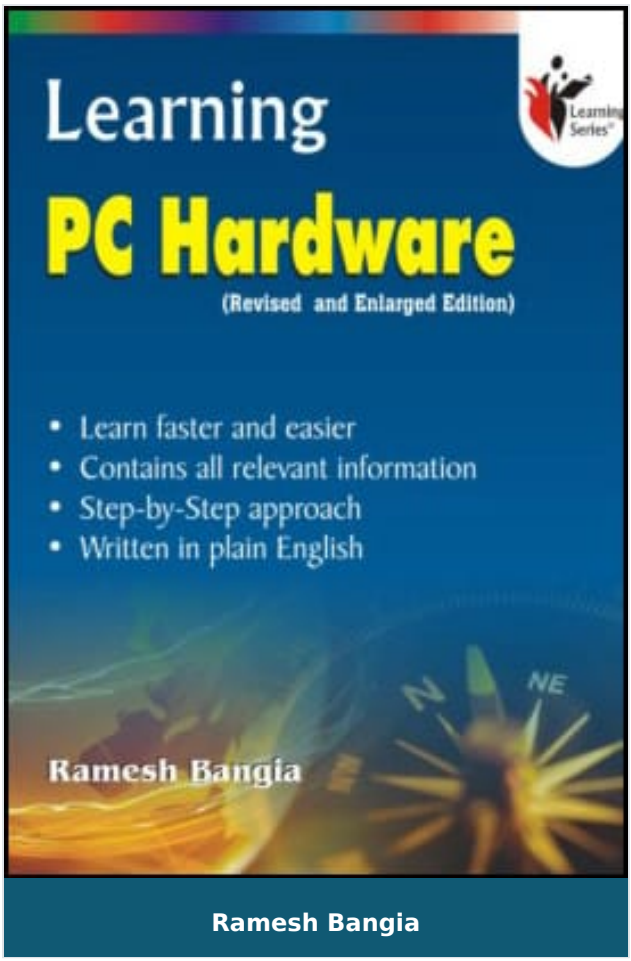
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Ramesh Bangia

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Product Description

Learning of a software is both easy and difficult. It depends up to 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 realize how difficult it is to master it. PC Hardware 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.

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Table Of Contents

- Introduction to PC Hardware
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- Inside the CPU
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- Assemble a Computer
- Questions

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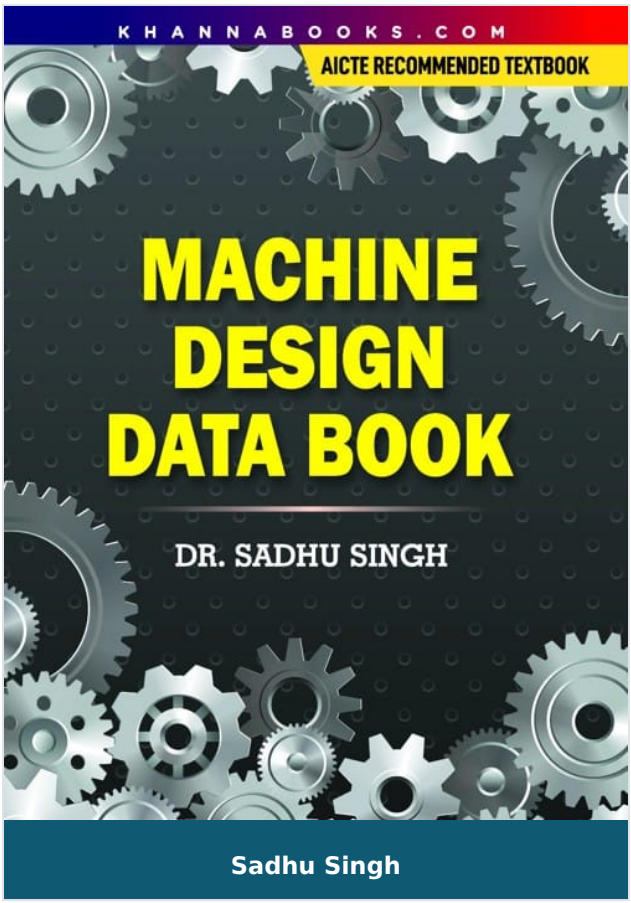
Ramesh Bangia

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.

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Table Of Contents

- Basic Design Data
- Engineering Materials
- Design for Static Loading
- Design for Variable Loading
- Riveted Joints
- Welded Joints
- Screwed Joints
- Power Screws
- Transmission Shafts
- Keys and Couplings
- Cotter Joints
- Knuckle Joint
- Pipe Joints
- Mechanical Springs
- Flat and V-Belts
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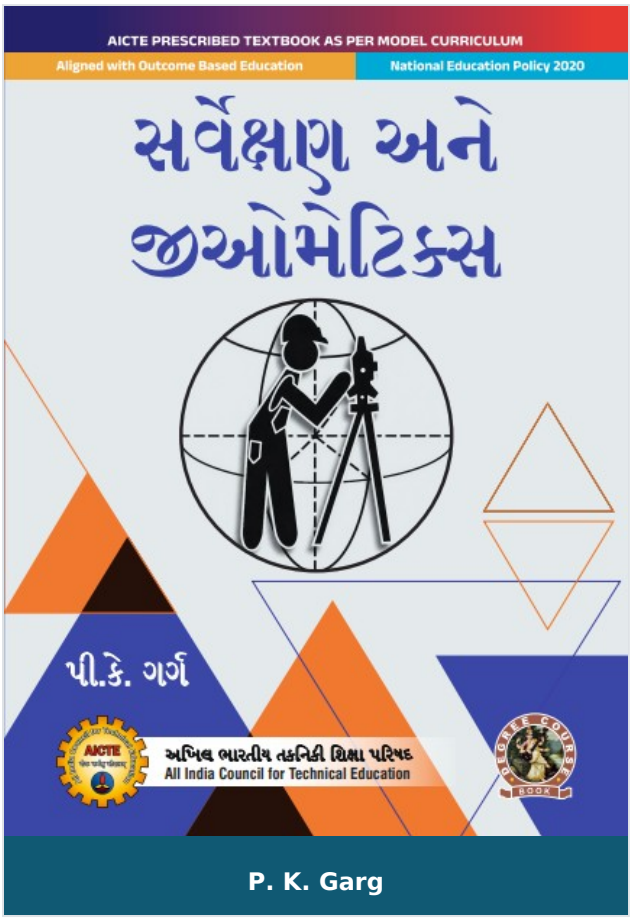
Sadhu Singh

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TEXTBOOK ON SURVEYING AND GEOMATICS

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Product Description

Textbook On Surveying and Geomatics

The book provides the fundamental principles and theory of various equipment and techniques used in surveying and geomatics engineering. The fast developments which have taken place in field data collection methods and mapping techniques are also covered in the book. The book is intended to guide and help students and researches understanding of surveying and geometrics tools and techniques. 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 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.
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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
- List of Tables
- • SURVEYING
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- • MODERN FIELD SURVEY SYSTEMS
- • PHOTOGRAMMETRY SURVEYING
- • REMOTE SENSING
- CO And PO Attainment Table
- Index

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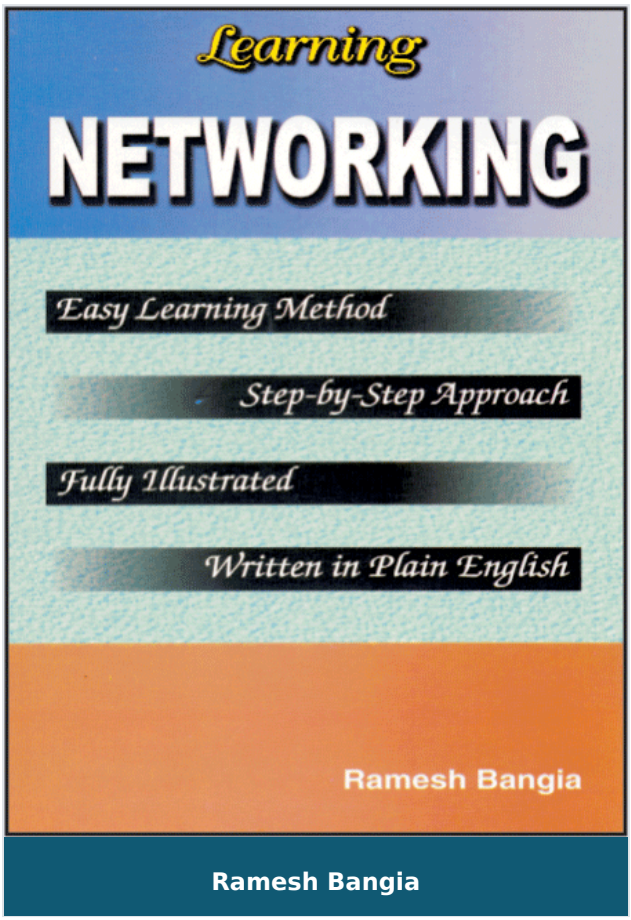
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Ramesh Bangia

Learning Networking

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Learning of a software is both easy and difficult. It depends up to 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 realize how difficult it is to master it. Networking 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.

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Table Of Contents

- Introduction to Networking
- Setting up the Cables
- Designing Your Network
- Configuring Windows for Networking
- Setting up Hardware for Internet
- Getting Connected to Internet
- Networking Software
- Glossary of Networking
- 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.

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