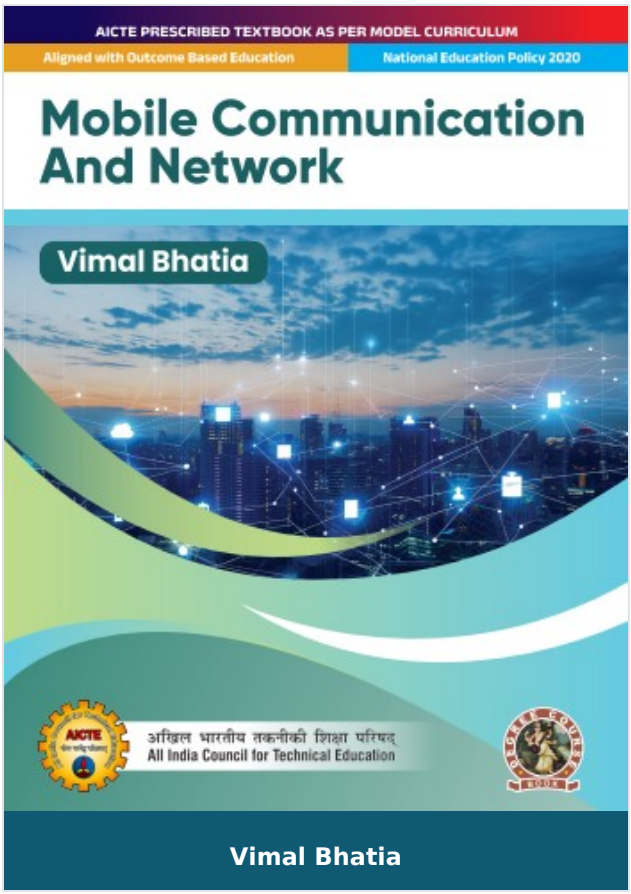

Mobile Communication and Networks

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Product Description

Mobile Communication and Networks

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

Salient Features:

- The content of the book is aligned with the mapping of Course Outcomes, Program Outcomes, and Unit Outcomes.
- At the beginning of each unit, learning outcomes are listed to help students understand what is expected of them after completing the unit.
- The book provides lots of recent information, QR codes for resources, projects, and more.
- Figures, tables, and software screenshots are included to enhance the clarity of the topics.
- Many solved examples are included in each chapter to improve the numerical solving skills of students.
- Exercises are provided for student practice after every chapter.
- Applications and standards for Mobile Communication and Networks are included.

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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
- CELLULAR CONCEPTS
- SIGNAL PROPAGATION
- CAPACITY OF FLAT AND FREQUENCY SELECTIVE CHANNELS
- MULTIPLE ACCESS TECHNIQUES
- RECEIVER STRUCTURE
- MULTIPLE-INPUT MULTIPLE-OUTPUT
- CO attainment table
- Index

Author

Vimal Bhatia

Dr. Vimal Bhatia Professor, Department of Electrical Engineering, Indian Institute of Technology Indore

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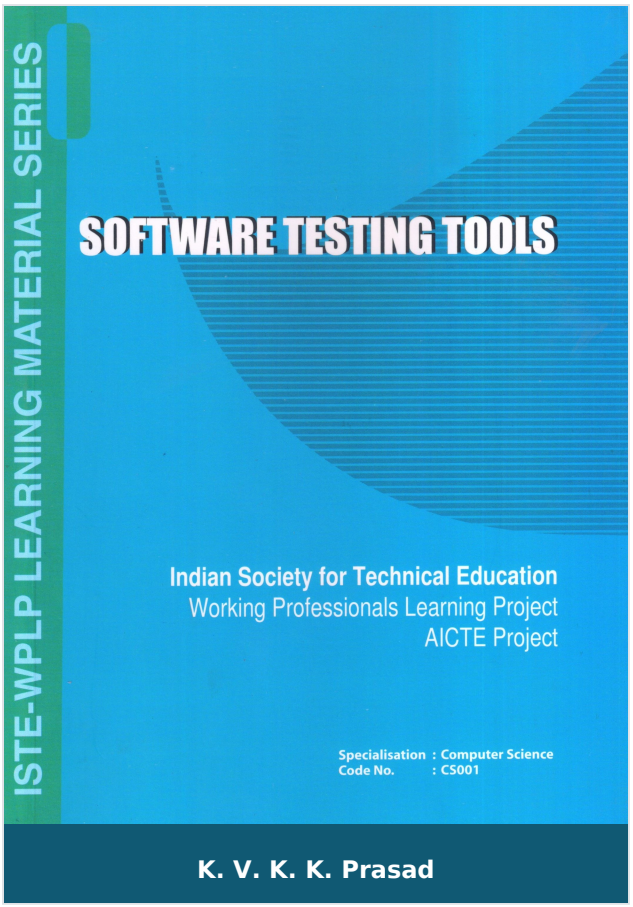

Software testing Tools

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Publisher :	Khanna Publishing House
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Country Origin :	India

Product Description

I have gone through this interesting tutorial notes prepared by Dr. K V K K Prasad. Software testing is a topic 0f great current interest to the software engineering community. Whether it is testing of a complex VLSI chip or software module, it is a challenging task and thus one encounters similar steps in the test process. Dr. Prasad starts with an interesting introduction to Software Quality Assurance, and briefly highlights the concepts underlying the Software Testing Process and Methodologies. An interesting introduction to Automated test tools makes it a good reading.

Function/Regression testing tools and Load testing tools form important components in the test process and Dr. Prasad has presented these notions with adequate clarity. Various related issues such as Software Testing Process Management Tools and Configuration Management are covered quite systematically.

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Table Of Contents

- FOREWORD
- PREFACE
- Overview of Software Quality Assurance
- Software Testing Process
- Software Testing Methodologies and Types of Testing
- Test Case Generation
- Automated Test Tools: An Overview
- Functional/Regression Testing Tools
- Performance/ Load Testing Tools
- Testing Web Applications
- Source Code Testing and Configuration management/ Version Control
- Software Testing Process Management Tools

Author

K. V. K. K. Prasad

Dr. K V K K Prasad graduate in Engineering Electronics and Communications Engineering from the Andhra University. He did his M. Tech., in Satellite Communication and Remote Sensing and PhD in Automatic Generation and Recognition of Speech from Indian Institute of Technology, Kharagpur. He had brilliant academic records. His association with Telecommunication Industry spanned over two decades and served this industry in various key positions with great distinctions.

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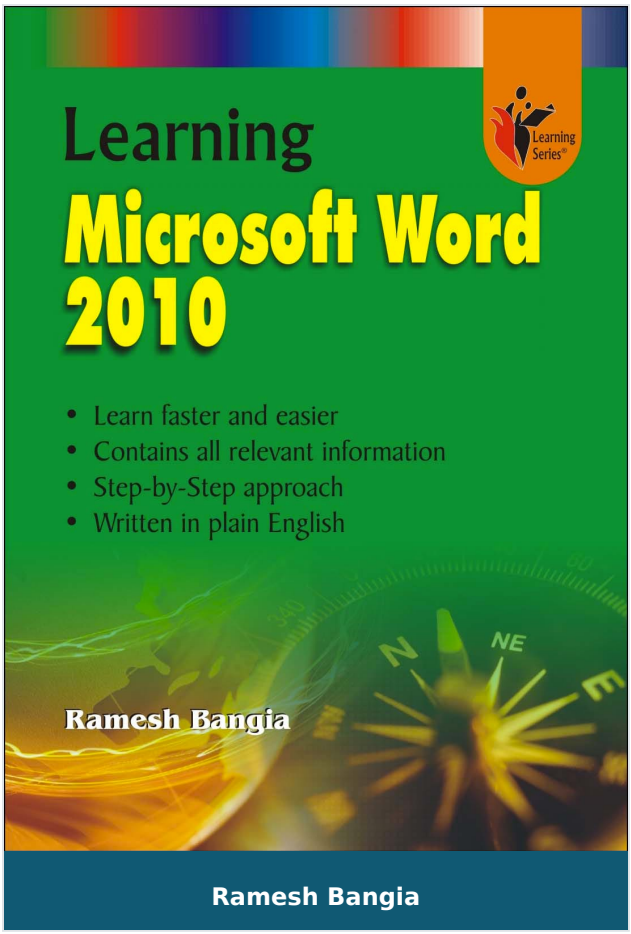

Learning Microsoft Word 2010

Author :	Ramesh Bangia
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Table Of Contents

- Introduction to Microsoft Office 2010
- Introduction to Microsoft Word 2010
- Working with a Document in Microsoft Word 2010
- Customizing Microsoft Word 2010
- Mail Merging Documents in Microsoft Word 2010
- Working with Longer Documents in Microsoft Word 2010
- Creating Tables in Microsoft Word 2010
- Working with Graphics and Charts in Microsoft Word 2010
- Additional Commands of Microsoft Word 2010
- Keyboard Shortcuts of Microsoft Word 2010
- 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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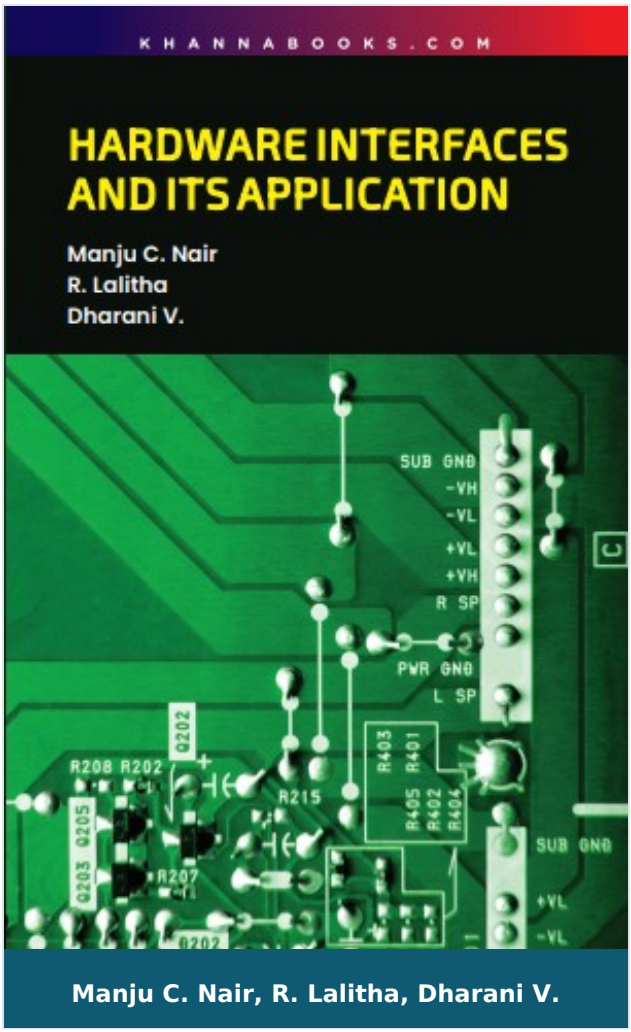

Hardware Interfaces and Its Application

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Product Description

Hardware Interfaces and Its Application

The foundation of modern technology—from high-performance computing to advanced networking and Artificial Intelligence—rests on the seamless integration of hardware interfaces. Hardware Interfaces and Its Application serves as a comprehensive and structured guide, providing a crucial understanding of the intricate connections that determine the performance, reliability, and functionality of modern computing systems. This book meticulously covers the evolution of personal computers, delves into essential components like processors, memory, and storage, and explores the crucial interfaces of motherboard designs, power management, and bus architectures.

The core purpose of this resource is to bridge the gap between foundational theoretical concepts and real-world, practical applications. It progresses logically, beginning with the history of computing and culminating in advanced topics such as modern CPU concepts, high-speed storage interfaces (NVMe, Hybrid), and network security protocols. The text ensures readers gain both theoretical expertise and practical insights for system optimization and maintenance.

Tailored for a broad audience, including students, aspiring engineers, IT professionals, and researchers, the content is carefully curated to cater to different levels of expertise. Whether you are a beginner seeking solid grounding or an experienced professional aiming to deepen your knowledge, this book is an invaluable reference for navigating the complexities of modern hardware architecture and staying updated with emerging industry trends.

Salient Features:

- **Foundational Architecture**: Explores the evolution of computing from mechanical devices to modern AI-powered systems and establishes the core principles of the

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Von Neumann architecture.

- Modern CPU Concepts: Detailed coverage of processor modes (Real, Protected, Virtual) and modern multi-core architectures, including CPU overclocking and performance optimization techniques.
- **Advanced Storage Solutions**: Comprehensive comparison of HDD vs. SSD technologies and in-depth discussions on RAID configurations, cloud storage, and high-speed NVMe interfaces for data management.
- **System Interconnectivity**: Focuses on core interfaces, including motherboard form factors, chipset roles, BIOS/UEFI firmware, and bus architectures like PCI Express and Thunderbolt.
- **Practical I/O & Networking**: Dedicated units on I/O peripherals (Serial/Parallel Ports) and network components (Switches, Routers, Cabling), crucial for system integration and performance.
- **Real-World Troubleshooting**: Includes practical case studies and solved problems for troubleshooting power failures, boot issues, and implementing efficient thermal management (air/liquid cooling).
- **Sustainability Focus**: Integrates discussions on environmental sustainability, e-waste management, and the ethical responsibilities associated with technology upgrades and hardware maintenance practices.

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Table Of Contents

- INTRODUCTION TO PC AND MEMORY
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- MEMORY MANAGEMENT AND OPTIMIZATION
- ADVANCED STORAGE TECHNOLOGIES

Author

Manju C. Nair

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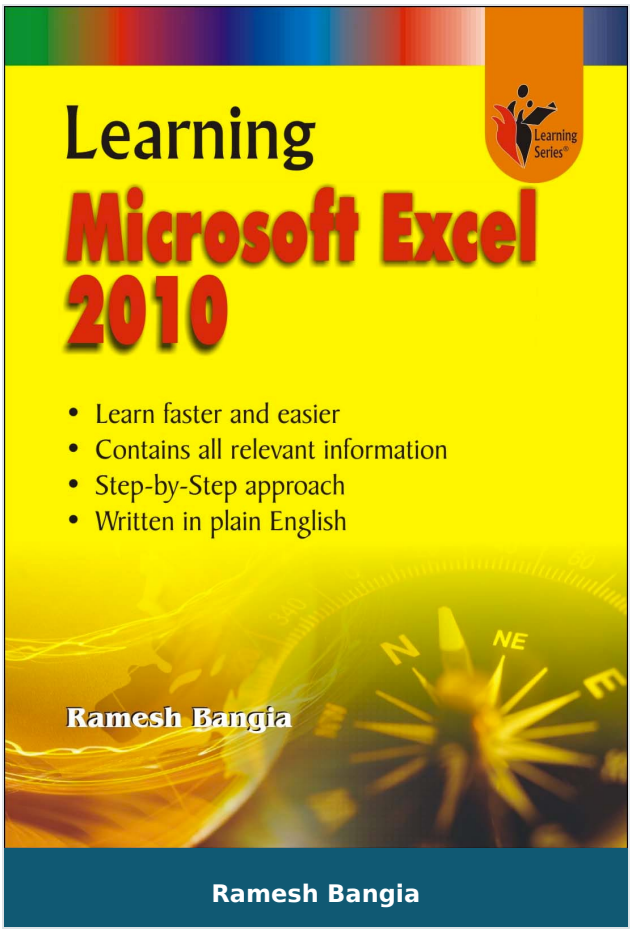

Learning Microsoft Excel 2010

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Product Description

The complete Learning Series has been designed in a very systematic and logical manner. Each topic has been developed from the basic concepts. Practically every major point in the text is illustrated with suitable examples and screen shots. This will help the students in understanding the basic theory and train them in solving every problem systematically, and confidently. A large number of unsolved as well as solved exercises have also been included in the book. Microsoft Excel 2010 is a spreadsheet program used for worksheet based requirements. The book takes you around the software and explains the working with the help of a live example. Insertions of the various types of graphics and images drawings, etc., are also explained. various types of functions are there in excel, which are covered in the book. They are listed in the book and few of them have been explained with the of the examples. The language of the text of the book is lucid, direct and easy-to understand. Each chapter is laced with various diagrams wherever possible. Functions has been explained in full and some of them have been explained in the form of examples. Tips for working faster using the keyboard shortcuts are also provided.

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- Spreadsheet Basics
- Creating a Worksheet in Microsoft Excel 2010
- Advance Techniques of Microsoft Excel 2010
- Charts in Microsoft Excel 2010
- Web Based Commands of Microsoft Excel 2010
- Functions in Microsoft Excel 2010
- Glossary of Words used in Microsoft Excel 2010
- Keyboard Shortcuts in Excel 2007
- 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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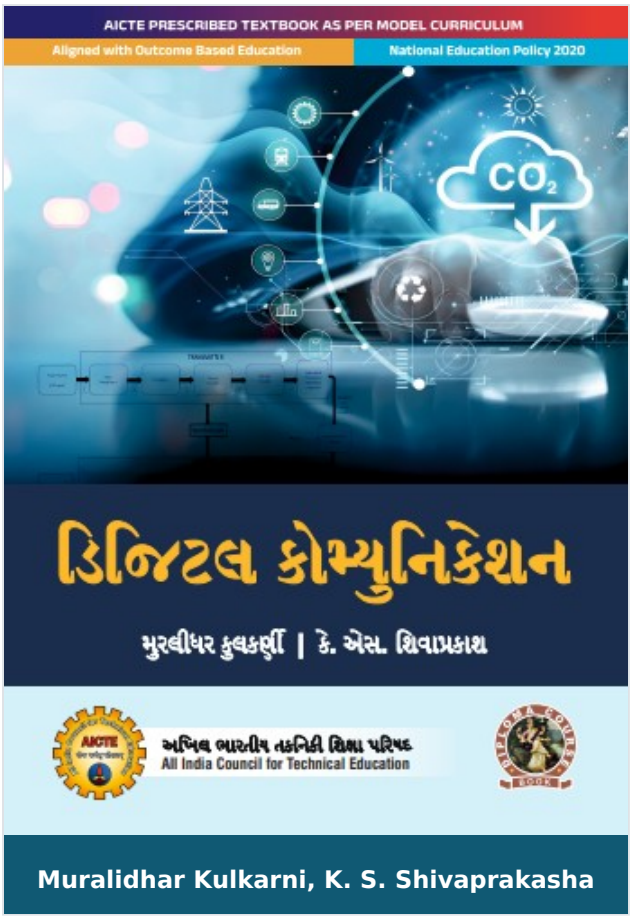

Digital Communication

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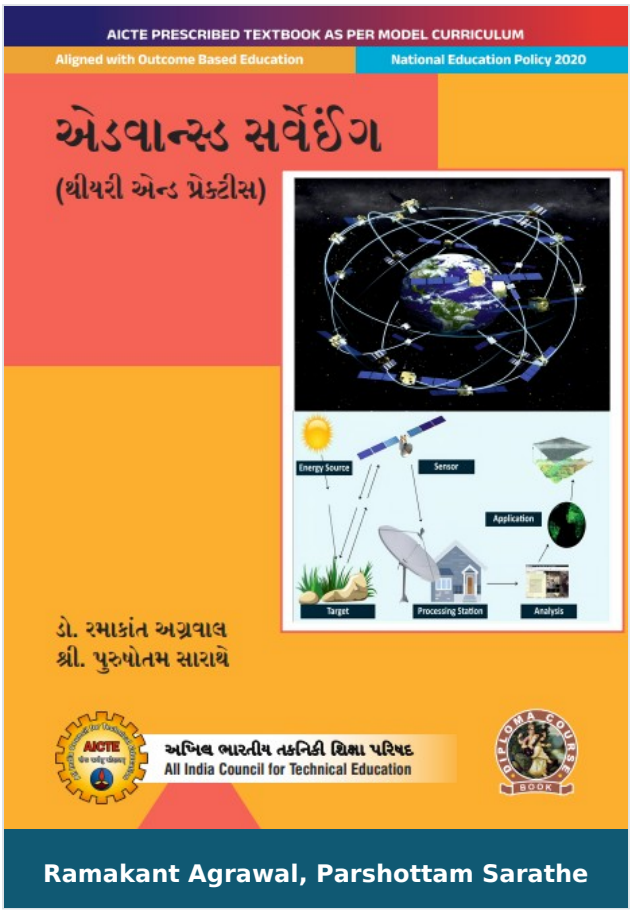

Advanced Surveying: Theory & Practice

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Dr. Ramakant Agrawal Professor and Head, Department of Civil Engineering, Oriental Institute of Science and Technology, Bhopal Mr.

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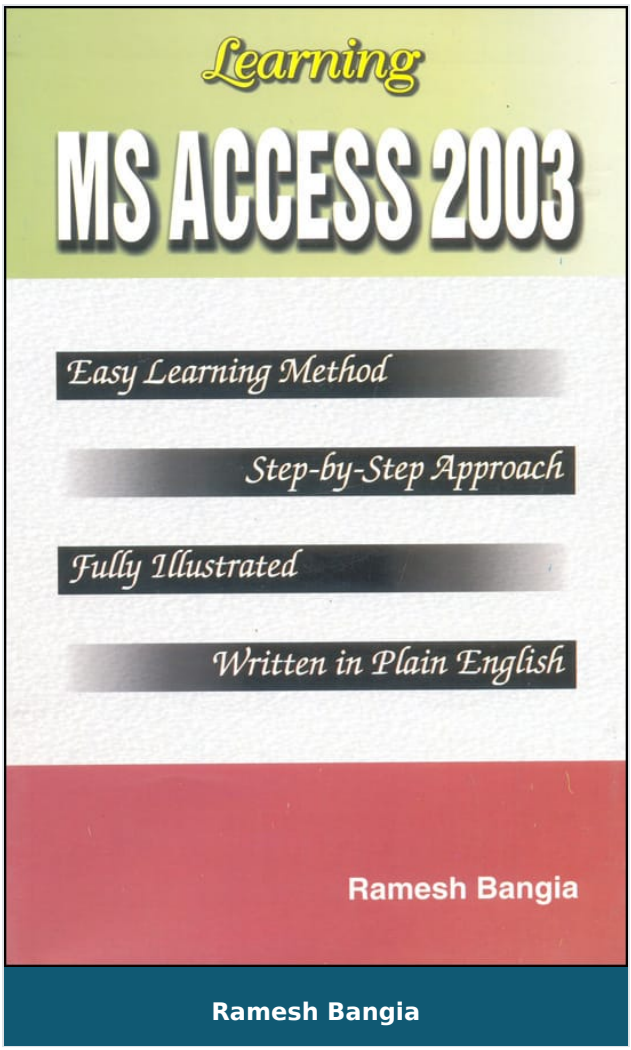

Learning MS Access 2003

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Table Of Contents

- Introduction to Microsoft Office 2003
- Introduction to Microsoft Office Access 2003
- Creating a Database using the Wizard in Access 2003
- Working with Tables in Access 2003
- Working with Forms in Access 2003
- Working with Queries in Access 2003
- Working with Reports in Access 2003
- Internet and Access 2003
- Additional Commands of Access 2003
- Keyboard Shortcuts of Microsoft Office Access 2003
- Questions

Author

Ramesh Bangia

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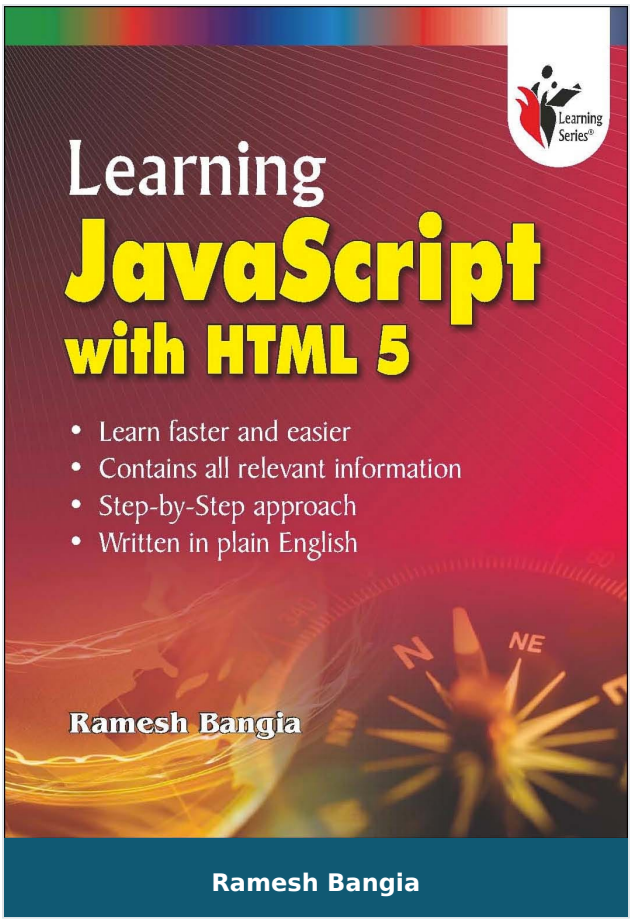

Learning Javascript with HTML 5

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Product Description

The complete Learning Series has been designed in a very systematic and logical manner. Each topic has been developed from the basic concepts. Practically every major point in the text is illustrated with suitable examples and screen shots. This will help the students in understanding the basic theory and train them in solving every problem systematically, and confidently. A large number of unsolved as well as solved exercises have also been included in the book. The language of the text of the book is lucid, direct and easy-to understand. Each chapter is laced with various diagrams wherever possible. Functions has been explained in full and some of them have been explained in the form of examples. Tips for working faster using the keyboard shortcuts are also provided.

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Table Of Contents

- Introduction to JavaScript
- JavaScript Functions
- JavaScript Objects
- Browser Objects
- Document Objects
- Document Object Model
- Validation, Errors, Debugging, Exception Handling and Security
- JavaScript The Beginning
- Questions

Author

Ramesh Bangia

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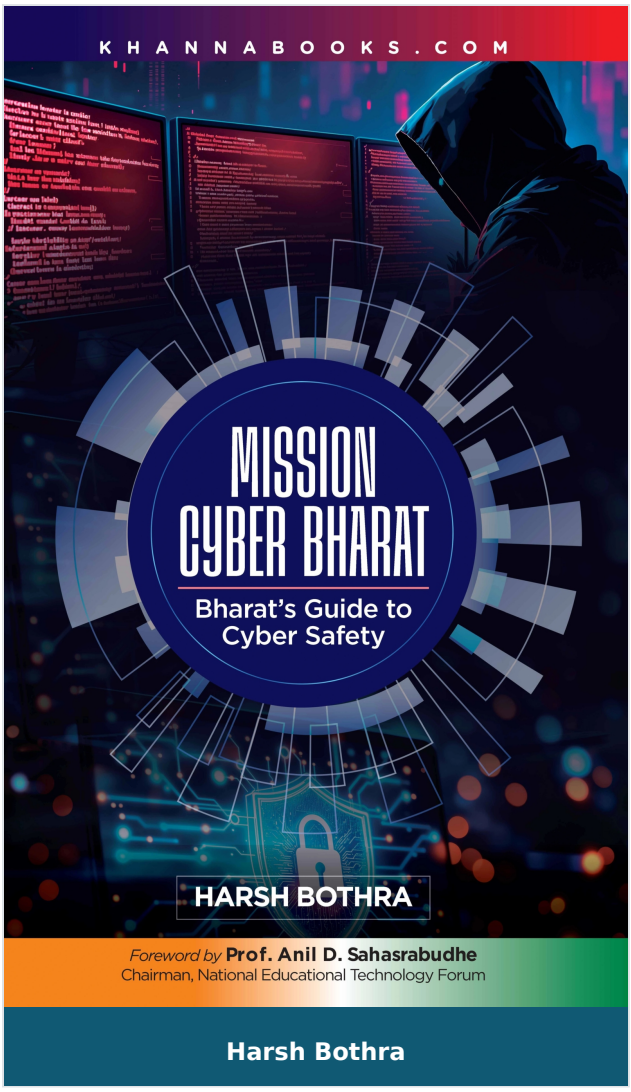

Mission Cyber Bharat (Bharat's Guide to Cyber Safety)

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Product Description

In an age where our lives are increasingly woven into the digital fabric-from online banking and social media to e-governance and digital payment-the threat of cyber fraud, data breaches, and identity theft often shadows the promise of convenience. India, with its vast and vibrant digital ecosystem, stands at the cups of a cybersecurity revolution. Yet, for millions of households, the jargon-field world of firewalls, phishing, and two-factor authentication remains daunting and opaque.

Mission Cyber Bharat was born out of a simple conviction: cybersecurity should not be the exclusive domain of specialists. Every citizen, regardless of age or technical background, deserves to understand the risks and arm themselves with practical defenses. Drawing on real-world stories- from schoolchildren targeted by “WhatsApp scholarship” scams to elderly citizens falling prey to phone-based fraud rings-this book demystifies core concepts through relatable narratives and step-by step advice.

Over the following chapters, you will journey through the anatomy of common scams, learn how to spot and thwart them, and gain the confidence to navigate the digital world safely. Whether you’re a student, homemaker, small-business owner, or retiree, you’ll find clear guidance, simple checklists, and easy-to-remember “Cyber mantras” to protect yourself and your loved ones. Together, let’s embark on this mission to make every household in Bharat a stronghold of cyber resilience.

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Table Of Contents

- Forward
- Preface
- About the Author
- Disclaimer
- Understanding Cyber World and Cyber Security
- Understanding Cyber Threats and Scams
- Cyber Scams-Safeguard Yourself
- Protecting Your Digital Life
- Cyber safety for Children and Teens
- Staying Safin, the Digital Age
- Appendix- Terms, Terminologies and Additional Resources
- Answer

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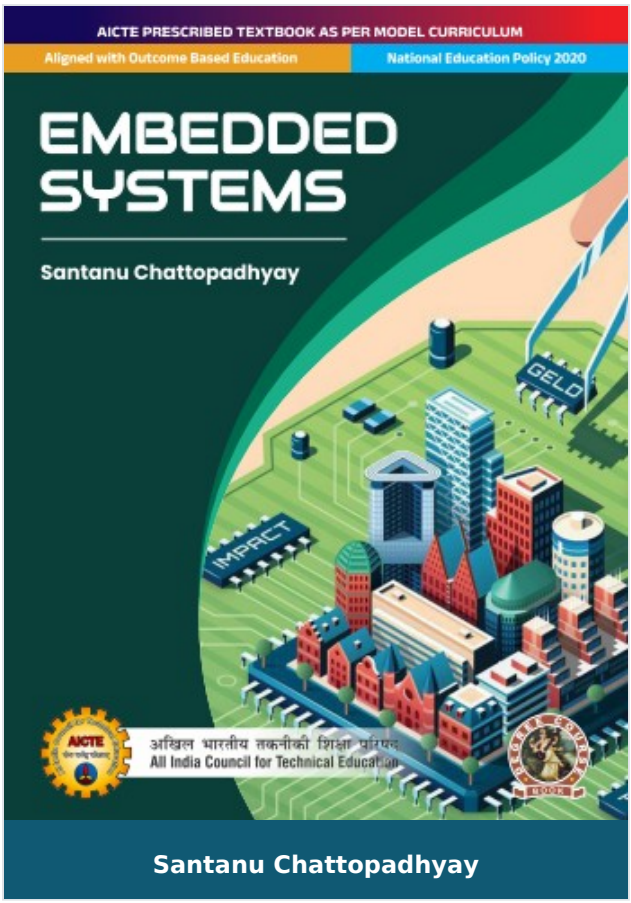

Embedded Systems

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Product Description

Embedded Systems

This book is designed for the course on Embedded Systems. It begins with the discussion on basics of embedded system and its features. The host processors, generally used in an embedded system design have been enumerated. In the process, the ARM processor, Digital Signal Processor, FPGA and ASIC have been introduced. Special types of interfacing standards are employed to connect devices to the processor. Non-conventional interfacing standards used in embedded systems like SPI, I2C, RS-232, USB, IrDA, CAN and Bluetooth have been discussed. ADCs and DACs are used for interacting with the analog world. Buses like PCIe and AMBA are employed for developing a complete system. For larger embedded applications, Real-Time Operating Systems (RTOS) are used to realize and schedule the processes, along with their resource requirements. The language Embedded C has become the de facto standard for realizing embedded system programs. The language has been introduced with a large number of example programs. In order to keep the cost of an embedded system less while satisfying the area, performance and power constraints, it becomes necessary to partition an embedded application into set of modules which are realized either in software or in hardware. Hardware-software co-design and co-simulation techniques are employed to achieve the same. The book gives the readers a good understanding of all these topics. A good number of examples, exercises and references act as the starting point to the domain of Embedded Systems.

Salient features:

- Covers embedded processors – ARM, DSP, FPGA, ASIC.
- Discusses special interfacing standards for embedded systems – SPI, I2C, CAN, USB, Bluetooth.

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- Enumerates the essentials of RTOS and embedded programming.
- Presents hardware-software cosimulation and codesign techniques.

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Table Of Contents

- Foreword
- Acknowledgement
- Preface
- Outcome Based Education
- Course Outcomes
- Guidelines For Teachers
- Guidelines For Students
- List Of Figures
- Embedded system Basics
- Embedded processors
- Interfacing
- Real-time system design
- Embedded programming
- Hardware-software codesign
- CO and PO Attainment Table
- EC – 21 Embedded Systems Laboratory
- Index

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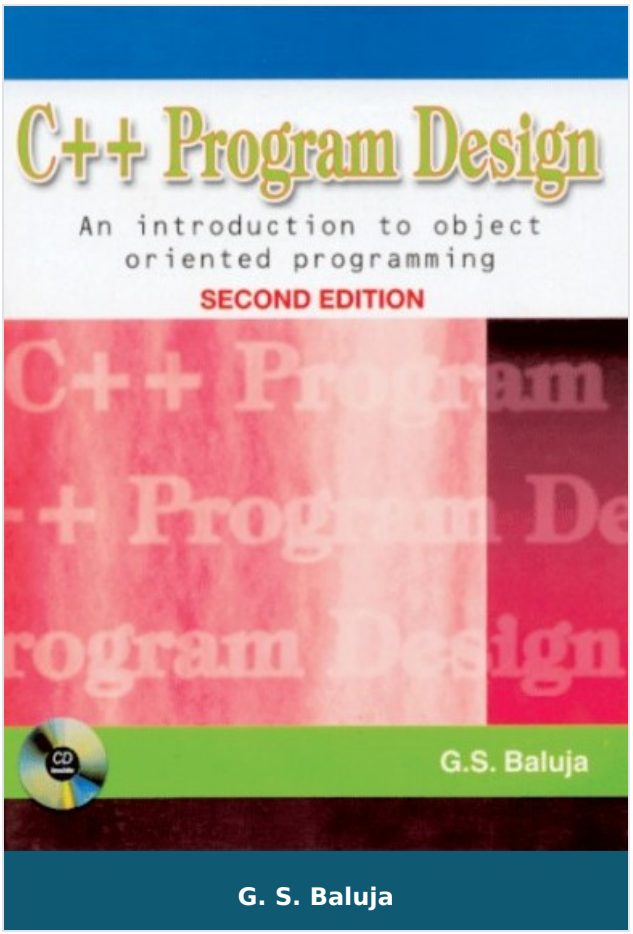

C++ Program Design

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Product Description

This book is a unique book valuable for beginners, intermediate and advance users. It is written with several goals in mind. It is designed to provide all the essential information you'll need to learn and master C++. It presents the basic to advance features of C++ in the context of procedural, genetic and object oriented programming. It contains a rich collection of examples, solved problems and exercises drawn from many fields to provide the reader with a chance to solve interesting real world problems. The plus point of this book is, its detail coverage of all the major features of C++ including new additions like standard temple library. exception handling, graphic and data structures. With this one book you can master the language in quick time.

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Table Of Contents

- Introduction to Computer Languages and C++ Programming
- Fundamentals of C++
- Input and Output
- Control Structures
- Functions
- Array
- Pointers
- Structures and Unions
- Object Oriented Programming- Part I
- Object Oriented Programming- Part II
- Inheritance
- Virtual Functions and Polymorphism
- Function and Operator Overloading
- Templates and Exception Handling
- File Handing
- Graphics In C++
- Data Structure in C++

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