

NIIT is a Global IT Education and services Organization with a presence in over 42 countries. It has one of the largest learning material development facilities in the world. It has strategic partnerships with leading technology companies such as Computer Associates, IBM, Microsoft, Oracle, and Sun Microsystems.

IDC ranked NIIT among the Top 15 IT Training providers globally for the year 2001. Through the innovative use of training methods and its commitment to research and development, NIIT has been in the forefront of computer education and training for the past 20 years.

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## COMPUTER AND INFORMATION PROCESSING

### Computer Graphics and Animation

#### 3D Animations: An Overview



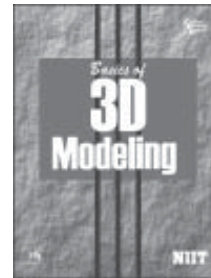
324 pages  
Rs. 250.00  
ISBN-81-203-2517-6

This book offers a concise and lucid introduction to different types of animations and the various 3ds max tools to create these animations. It acquaints you with the basic techniques used to create 3D animations and the procedure to visualize and create storyboards for an animation.

You will also get fast facts into:

- Adding effects such as audio effects, jumping, and fading to animated objects with the use of *controllers*.
- Hierarchies and kinematics for generating movement.
- Use of particle systems in 3ds max to add special effects.
- Creating dynamic simulation by using *space warps*.
- Implementing wire-frame controls called *gizmos* to give atmospheric effects.
- *Light* animation and role of cameras.
- Techniques and tools for rendering animations and adding post-production effects.

#### Basics of 3D Modeling



232 pages  
Rs. 195.00  
ISBN-81-203-2524-9

This book offers an application-oriented coverage of the founding concepts of 3D modeling. It introduces the reader to modern 3D-modeling software, particularly the popular 3ds max interface. Basic as well as more advanced modeling techniques such as patch surface and NURBS modeling are explained. The practical implications of factors such as lighting and camera setup, and the process of rendering wire models for realistic impressions are explained systematically as applied to real-world scenarios.

#### The book features:

- Detailed description of the 3ds max interface
- Basic and advanced modeling techniques—Spline, Mesh, Poly modeling, Patch Surface and NURBS modeling
- Lighting, Camera setup and effects (Fx) by using 3ds max

Rendering the wire model of an object to convert it into a real-life-like object.

#### Basics of Computer Graphics Design



248 pages  
Rs. 195.00  
ISBN-81-203-2527-3

This book targeted at core engineering students, explores the elements and principles of design. Design—being an orderly arrangement of objects—necessarily involves the process of composition. This project-oriented book covers from cypher the details of design techniques gradually picking up different levels of composition using the layout of a chocolate box as example. The book in the initial chapters covers the basic elements: lines, shapes, spaces, and scale. Then the details of more complex elements like texture, color and typography are taken into perspective. Also you are acquainted to principles of composition such as balance, unity, variety, rhythm, emphasis and contrast. Another highlight of the book is the seamless integration of Adobe Illustrator basics and the tools and procedures, into the text as per their usability.

### Character Animation: An Overview



260 pages  
Rs. 195.00  
ISBN-81-203-2434-X

This book is organized to take the readers through the steps needed to create three-dimensional character animation using the various tools offered by 3ds max—a popular 3D animation software. It gets you started with a discussion on workflow in 3D animation, the principles governing animation, and the significance of human anatomy in character animation.

*With this book, you will learn how to:*

- Create a model in 3ds max using the polygon modeling method.
- Animate prepared model to perform a two-legged walk and a four-legged walk.
- Use MAXScript—a built-in scripting language of 3ds max—to create animations by scripting.

### Game Design Process



288 pages  
Rs. 250.00  
ISBN-81-203-2690-3

The challenges of making popular video games are staggering. A game development team comprises designers, programmers, artists, and production staff. This book introduces the process behind the design of video/computer games and explains how the development team uses story, art, gameplay mechanics, motion and sound to make a game as best as it can be.

Upon using this book, students will be able to understand:

- How the ideas and specifications for a game are developed, based on game concepts and vision
- How a game story and its characters are created
- The programming elements, scripting, art, design and animation components of a game project
- The production processes that take the game to the prototype stage.

### Game Management—An Overview

This text offers an easy-to-understand presentation of the game development process: from game proposal to release. The book outlines all the main stages of a game's development, describing what happens at each stage in detail. The book covers:

- Game proposal, research and game management
- Pre-production, prototyping art direction and audio
- Basic game mechanics, screen interface theory and control models
- Market feedback, contracts and how to schedule the development, critical path analysis product packaging, IPR, copyrights
- Software process model, game build frequency debugging, testing, launch and redesign.

The book is rich in real-world case scenarios which help the reader to gain a complete understanding of game management.



468 pages  
Rs. 295.00  
ISBN-81-203-2520-6

### Guide to Filmmaking with Software Tools Adobe Premiere and SoundForge, A



308 pages  
Rs. 250.00  
ISBN-81-203-2556-7

The evolution of an ace film director involves getting the basic techniques right; and setting a firm foundation of all the tools involved in filmmaking. This is precisely what this book on filmmaking does for you.

Conveniently divided into two parts, the book details the fundamentals underlying camera work, compositions, lighting, and editing and discusses the procedures involved in audio and video editing.

The highlights are:

- Types of camera movements and details of the three-point lighting system.
- Procedures of video editing using *Adobe Premier* and audio editing using *SoundForge*.
- Interface components of Adobe Premier.

### Introduction to Games, Game Play, and Game Experience



288 pages  
Rs. 225.00  
ISBN-81-203-2521-4

Are you game for an industry having an annual sales comparative to mainstream cinema? If you are, this book is your tour guide for the absorbing form of mainstream entertainment called Games.

The book exposes the current trends in the Games industry and then goes on to prophesize the impact of this industry on the future in an informal and entertaining, yet enriching narrative.

**The text covers:**

- Elements and Principles of Game Design and Technology
- The current crop of computer games with a peek into the next generation of console titles
- Game development process with an overview of the team, its responsibilities and the tools at its disposal

Wrapping up with a look at the glamorous Game Development Industry, this scintillating book leaves you raring to know more!

## Computer Science

### Basics of Software Project Management



272 pages  
Rs. 225.00  
ISBN-81-203-2490-0

This book provides a clear discussion of the management strategies necessary to plan and execute a software project successfully. It strikes a pragmatic balance between theory and practice needed in today's challenging development environment.

The book provides insightful examination of:

- Roles and responsibilities of a software project manager
- Main phases and activities involved in software project management
- Life cycle models followed in software development from conceptualisation to termination—planning and scheduling using tools such as PERT, CPM, and Gantt charts.

A key feature of book is a chapter on Microsoft Project 2000 that teaches how to plan and control a software project schedule effectively.

## Database Development: An Overview



432 pages  
Rs. 295.00  
ISBN-81-203-2516-8

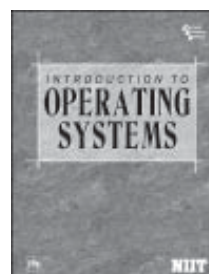
This book on applied database development covers techniques to design databases and using database development tools. It covers concepts on SQL language, relational database, and distributed database.

The book begins with a review of Visual Basic 6.0. VB controls, properties, and project and moves gradually to the more advance and complex concepts hence giving the reader a complete coverage.

### Here is what you will learn:

- SQL basics and concepts like joins, triggers, stored procedure and complex queries
- VB as front-end tool and Integration of front-end with back-end with concepts of DAO, RDO and ADO
- Advance database programming, report generation & management, and OOP concepts
- Database validation and verification, and debugging with VB 6.0
- Distributed applications and creating Web applications, Windows API, and Active-X controls

## Introduction to Operating Systems



348 pages  
Rs. 250.00  
ISBN-81-203-2393-9

This easy-to-understand practical text introduces the basic mechanisms of operating systems. It helps to learn how an operating system manages the hardware and software resources—the memory, processes, I/O devices, and files—of the computer. Network topologies and different protocols (TCP/IP, IPX/SPX, NetBIOS, and NetBEUI) are elaborated to acquaint the reader with different methods of network management.

The book features detailed coverage on:

- memory management
- device management
- process management
- file management

Demonstrations and lab exercises include working with the features of several operating systems—DOS, Windows 98, Windows NT, Windows 2000, and Linux.

## Operating System: Linux

Linux is a multiuser operating system that provides features such as multitasking and time-sharing. It can be used both as a server and a workstation.

This text acquaints the reader with the essential features of Linux and helps develop the skills one needs to get going with Linux. With this text, you will learn how to:

- Install Linux and manage files using file and directory commands.
- Work with text editors like vi, vim, emacs, red, joe and pico.
- Redirect input, output and errors to a files using files descriptors and symbols.
- Work with desktop environments, GNOME and KDE; and configure administrative tasks.



440 pages  
Rs. 295.00  
ISBN-81-203-2409-9

## System, Analysis and Design for Software Engineers



340 pages  
Rs. 250.00  
ISBN-81-203-2716-0

This book provides a detailed coverage of information system development life cycle, information requirements analysis, and system design for software engineers. It explains the various theories, methodologies, and tools that are used in system analysis with the help of several examples.

The text also identifies the advantages and disadvantages of various design strategies to select a system architecture for a given software system.

The book features topics such as:

- Impact of various generations of programming languages.
- Evolution of software development models and their appropriate areas of application.
- Software Project Management (SPM) enabling quality assurance.
- Object-Oriented (OO) and Unified Modeling Language (UML) concepts using the Poseidon Computer-Aided Software Engineering (CASE) tools.

## Understanding Business Information Systems



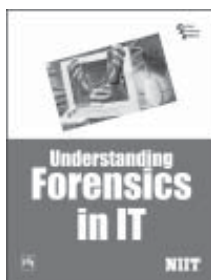
212 pages  
Rs. 195.00  
ISBN-81-203-2717-9

This text provides a deep understanding of automation of Information Systems in organizations to ensure efficient handling of information for generating competitive business solutions.

The book introduces the reader to database designing, building, accessing and management, and covers in detail such topics as ERP, CRM, SCM, E-commerce systems, and collaboration and knowledge management. It also gives an insight into the possible risks associated with automation of Business Information Systems, for example, virus attacks, computer crimes, sabotage, and espionage.

This book essentially encapsulates the methods of automating Business Information Systems and the benefit it provides in the decision-making process.

## Understanding Forensics in IT



232 pages  
Rs. 195.00  
ISBN-81-203-2688-1

This book provides a comprehensive and detailed look at countermeasures being mounted to investigate and defeat attacks on information systems.

*System forensics* is a methodology-based framework, which deals with ways and means of tracking criminals who use computer systems to plan or implement acts of crime.

With this book, you will:

- Understand the processes involved in the detection of computer crimes
- Learn about the different tools and utilities available on a Linux machine to conduct a forensic study
- Learn how to analyse a Windows-based computer for clues and evidence of a cybercrime
- Gain an insight into legal issues pertaining to computer crimes
- Understand basic concepts of network forensics and how to collect evidence from network traffic.

## Internet & Web Publishing

### Basics of E-Commerce: Legal and Security Issues



208 pages  
Rs. 195.00  
ISBN-81-203-2432-3

This book offers insights into e-commerce—the infrastructure required to perform Web-business—and the various legal and security issues involved in such business activities. Beginning with the procedures and mechanics of launching a new business on the Internet, the book focuses on the reliability and integrity of Internet transactions and how the risks inherent in e-commerce can be harnessed through appropriate security measures and legal procedures.

#### Here is what you will learn:

- How to provide security through security policy, cryptography, and ensure compliance with laws such as the Electronic Communication and Privacy Act, 1986.
- How to acquire digital certificates using the Public Key Infrastructure (PKI) technology.

### Basics of Web Site Design



456 pages  
Rs. 325.00  
ISBN-81-203-2433-1

The greatest advantage of the World Wide Web (WWW) is the simplicity that it offers to organizations and individuals to provide information and services to an international audience by setting up Web sites on the Internet. This book provides a basic understanding of the Web medium and the tasks and techniques involved in designing a Web site. The book helps you become an adept Web site designer as it delves into:

- Developing a Web site using Dreamweaver and testing a Web site on different browsers.
- Use of various programming and scripting tools such as HTML, DHTML, XML, JavaScript, and ASP to add interactivity to Web pages.
- Creating Web applications for wireless devices using WAP, WML and WMLScript.

## Building Web Applications

This book provides a basic understanding of the web medium and the techniques involved in designing a website. It explains the fundamentals of how data transaction occurs.

Beginning with an introduction to web technology, the text explains how to write with HTML, then it shows how to understand webservices and familiarizes the reader with web browsers and web servers. The text concludes with a detailed description of such topics as databases, database transaction and administering and troubleshooting of web servers.

This comprehensive and user friendly text is indented to make the reader become an adept website designer as it shows:

- the use of various programming tools such as HTML, XML, ASP, VBScript and JavaScript to add interactivity to web pages;
- the client/server architecture and its features;
- how to develop Websites, and explains troubleshooting common errors.



352 pages  
Rs. 250.00  
ISBN-81-203-2714-4

## Ethics and Security Management on the Web



296 pages  
Rs. 195.00  
ISBN-81-203-2411-0

Managing security on the Web is increasingly becoming the prime concern for computer and network users. Security policies and tools are needed to protect data and systems from ill-behaved and malicious users of the Internet. This book is an introduction to such codes of ethics that make Web surfing safe. Through the pages, it exposes the vulnerabilities of Web contents, and suggests safeguard measures against illegal Web intrusions.

Also covered are:

- The *ethiquettes* for Web surfers.
- Key issues related to cyber contents and protection from copyright laws.
- Privacy infringement in cyberspace.
- Public security on the Internet.
- Corporate security policies.

## Hacking: Tools & Techniques and Incident Handling



384 pages  
Rs. 295.00  
ISBN-81-203-2390-4

The intellectual mischief *hacking* has always evoked curiosity among programmers and other computer users world over. While this book highlights various hacking techniques and tools used by hackers to perform security breaches, it also emphasizes on the positive side of hacking—and suggests effective security measures to protect systems and networks against this invasion.

The book talks about:

- Cracking, spoofing, phreaking, and quiet intrusion.
- Ethics of hacking.
- Vulnerabilities in TCP/IP, mail, Web applications, and Windows.
- Firewall attacks and methods of reconnaissance.
- Tools of scanning and buffer overflow.

## HTML and XML: An Introduction



316 pages  
Rs. 195.00  
ISBN-81-203-2389-0

An ideal practical guide for beginners, this book deals with fundamentals of HTML and XML. This book is meant for those interested in knowing the 'Whats' and 'Hows' of web designing; and helps you get started quickly with the common tasks.

You can also enhance your skills in:

- Creating HTML/XML documents.
- Adding colors, fonts and formatting types.
- Using lists and table elements on web page.
- Creating frames, hyperlinks, and style sheets.
- Providing dynamism to your web page with multimedia and making it interactive with form elements.

### Information Security: An Overview



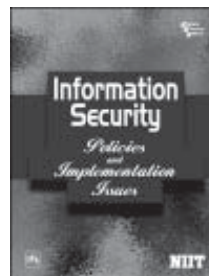
252 pages  
Rs. 195.00  
ISBN-81-203-2518-4

This basic text guides you through the various aspects of information security, moving into the world of threats—from outside as well as from within; the *virus threats*—and ways to prevent them.

It introduces you to the measures to counter security breaches, and also deals with the application of *Cryptography and Biometrics*. The use of algorithms and models in studying counter measures; indepth coverage of *Risk Management* and its different facets like risk assessment, analysis and of course, *Risk Mitigation* give the reader substantial mileage in mastering various aspects of information security.

The text highlights the need for security policies; explains the life cycle of a security policy; and then moves on to elucidate some key security policies. Various Intrusion Detection Systems (IDSs), honeypots, and firewalls are discussed. You are also exposed to the objectives of security audits, and the various auditing phases and strategies.

### Information Security: Policies and Implementation Issues



224 pages  
Rs. 195.00  
ISBN-81-203-2437-4

In a comprehensive overview of various security policies and their implementation, this book covers the technologies—firewalls with demilitarized zone (DMZ), virtual private networks (VPNs), network address translation (NAT)—and standards used to secure sensitive information.

#### You will learn all about:

- Characteristics, functions, and legal necessities of an information security policy.
- Important security standards—BS 7799 and ISO 17799.
- Components of a security policy such as IPSec, tunneling protocols, Certificate Authority licensing, public key infrastructure (PKI), and more.

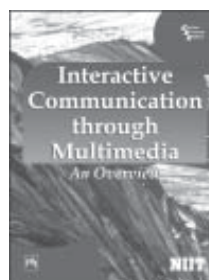
### Interactive Communication through Multimedia: An Overview

Designed as a text which gives the basic exposure about creating interactive multimedia applications by using Director and Flash, the book serves as an effective tool for learning the use of multimedia tools.

It provides an insight into the phases involved in executing a multimedia project and simultaneously providing hands-on learning on Director and Flash.

#### Features:

- Use of various multimedia authoring tools
- Multimedia project execution
- Director, components of interface working, adding text, images, and animation.
- Audio and Video integration in Director
- Flash interface and role of symbols in Flash
- Audio-video synchronization
- Using ActionScript in adding interactivity to Flash movie
- Publishing and exporting a Flash movie



400 pages  
Rs. 275.00  
ISBN-81-203-2513-3

## Introduction to Information Security Risk Management



316 pages  
Rs. 250.00  
ISBN-81-203-2495-1

*Information security* refers to securing an organization's information assets and business processes with respect to confidentiality, integrity, and availability.

This first part of the book presents a comprehensive overview of how organizations can identify and manage potential risks associated with information and information technology. It guides the readers through the various phases of the risk management process—risk analysis and assessment, risk planning and implementation, and risk mitigation and monitoring.

The second part of the book introduces the concepts of intrusion, intrusion detection, and intrusion detection systems (IDSs). It also explains the features of two types of IDSs—network-based and host-based.

## Introduction to Interactive Communication Design



432 pages  
Rs. 295.00  
ISBN-81-203-2435-8

Learn to produce interactive movies, presentations, and eye-catching websites, and more—the easy way with powerful multimedia-authoring tools Macromedia Director and Macromedia Flash. This friendly guide uses a practical, learn-by-doing approach to teach you all about:

- The various Director components for creating a movie.
- The process of creating smart movies with Lingo and Flash animations.
- Incorporating sound and video to make your movie more interesting for audiences.
- Flash MX technology to create attractive and interactive interfaces to your websites.

## Working with Digital Information



232 pages  
Rs. 195.00  
ISBN-81-203-2528-1

The book starts with the introduction to digital information and its most common application i.e. multimedia.

This book is aimed at the students pursuing courses in Computer-aided Drafting and Design and covers all the facets of digital information and its areas of use.

The topics covered are:

- Multimedia-authoring tools and guidelines
- Text and Graphic file formats and conversion
- Analog and Digital recording and the procedure for audio-file compression.
- Techniques for creating animation and the concept of virtual reality.
- Linking AutoCAD drawings to associated documents with Xrefs.

The book illustrates all the topics covered with the help of multimedia project given in the concluding chapter.

## Networking

### Advanced Switched Networks



224 pages  
Rs. 195.00  
ISBN-81-203-2561-3

This book on advanced switched networks is an exhaustive coverage of high-level conceptual topics as well as discrete command line syntax. The highlight of the book is the inclusion of CISCO components and commands for the different levels of campus environments.

#### The book discusses:

- Virtual LAN (VLAN, Workgroups and Protocols—IEEE 802.1Q and IEEE 802.1Q standard, CISCO VTP and Spanning Tree Protocol (STP).
- Inter VLANs topologies. Also covers Inter-Switch Link (ISL) and ATM Local Area Network (LANE).
- Multilayer Switching (MLS), Multi Protocol Label Switching (MPLs), Multicast (layer 2 and layer 3) environment.
- Basic Network management baselines and policies.
- Methodologies, procedure and tips for troubleshooting a switched network.

### Basics of Networking



300 pages  
Rs. 225.00  
ISBN-81-203-2489-7

Here is a comprehensive introduction to the fundamentals of computer networking technology, and the tasks involved in managing, monitoring, maintaining and troubleshooting computer networks. The text acquaints the reader with the different types of network topologies and how the various hardware devices, protocols, and connectivity options are made use of in LANs and WANs.

#### You will also learn about:

Sharing and transferring data between two computers using direct cable connection (DCC).

- Open Systems Interconnection (OSI) and TCP/IP reference models.
- Network addressing schemes used by TCP/IP, IPX/SPX, and NETBEUI to identify devices, hosts, and computers, respectively, on a network.
- Features of WAN protocols and connectivity specifications (ISDN and VSAT).

### Basics of Network Security, Firewalls and VPNs

In this book, you are offered with a basic understanding of network security with respect to the Internet and Intranet. The concepts of network security are attended through in-depth examination of Firewalls, and Virtual Private Networks (VPNs)—tools to safeguard the networks against potential security threats.

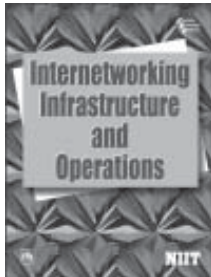
This text helps understand:

- Firewall architectures and topologies; selecting and installing firewalls; and knowing their limitations.
- Need and types of VPNs; its architecture; implementing DVCP VPN, Branch Office VPN, and remote access VPN by using a Firebox; and technologies and protocols used in IPsec.
- How to select an appropriate firewall solution.



308 pages  
Rs. 195.00  
ISBN-81-203-2410-2

## Internetworking Infrastructure and Operations



208 pages  
Rs. 175.00  
ISBN-81-203-2563-X

This book provides an introduction to networking concepts, stressing specifically on TCP/IP. The networking scenario in our organization is overviewed with respect to the information security threats and the methods and steps the organization should take in order to present these threats. The book explains basic network topologies and WAN Protocols like X.25, Frame Relay, PPP and ATM. It discusses IP routing and the role of application protocols as a user-interface to the TCP/IP protocol suite. You are introduced to electronic messaging and the different messaging protocols and messaging server configurations. The book shows the need and features of different types of DBMS in an organization. Finally the student is explained the key tasks performed by a network administrator which include making backups and maintaining resources to monitor a network.

## Internetworking through Wide Area Networks



424 pages  
Rs. 295.00  
ISBN-81-203-2414-5

This book conveys the concepts related to WANs and technologies, services and applications used to implement a WAN. All this is offered through a balanced mix of theoretical knowledge and practical implementation of CISCO WAN technologies.

You also learn about:

- Basics of internetworking
- Various modes and methods of switching
- Use and application of WAN protocols—X.25 and Frame Relay
- Setting up a WAN
- Efficient and effective data communication through ISDN and SONET
- CISCO WAN routers and switches

## Management of Network Systems



260 pages  
Rs. 195.00  
ISBN-81-203-2394-7

Here's a book that offers insights into computer networking, from the simplest local area networks to the complex tasks of administering state-of-the-art networks. Beginning with the basic concepts and principles of computer networking, you will learn:

- Different LAN and WAN technologies and the usage of various protocols.
- Basic concepts of managing, monitoring, and controlling network traffic.
- Fundamentals of network switching and their applications.
- Remote and telecommuting options available in an access network, the need for remote monitoring and remote management of protocols.
- Features of IP addressing, the concept of IP routing, and features of IPv6.

## Networking Protocols and Standards



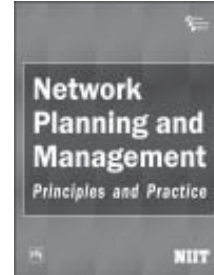
336 pages  
Rs. 250.00  
ISBN-81-203-2412-9

It is only the networking protocols and standards that have empowered today's business and organizations to share/access resources and data over the globe. Book provides the basic knowledge of the mechanisms and elements behind networking.

This is therefore the right text that familiarizes you with:

- OSI and TCP/IP network reference models—their architecture, topology, and technology.
- ATM and ISDN.
- Features of three important network operating systems—Novell NetWare, Linux, and Windows 2000.
- Configuring ISDN and Messaging Servers
- Designing a LAN.

## Network Planning and Management: Principles and Practice



220 pages  
Rs. 195.00  
ISBN-81-203-2687-3

With the prolific growth of networking, network planning and management is becoming an increasingly important area of the academic curriculum. This book provides a motivational treatment of important concepts of network planning and management from a system analyst's viewpoint. It addresses network analysis issues from a practical perspective.

Through this book, the student will gain insights into:

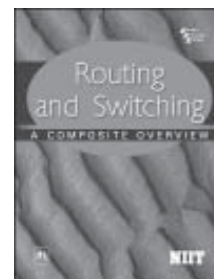
- The process of system analysis
- The factors and components that influence network capacity planning and designing
- The different components of IT Services Management (ITSM) linked to network planning
- Major cost drivers governing design of a network
- The various management tools available for managing projects.

## Routing and Switching: A Composite Overview

This text offers a detailed discussion on routing fundamentals, various routing protocols and their principles and applications. It describes how to optimize routing operations in an internetwork.

With several examples and scenarios from real-life situations included in the book, you will learn how to:

- Configure, verify, and troubleshoot various routing protocols, such as RIPv1, RIPv2, IGRP, EIGRP, OSPF, and BGP.
- Optimize routing operations, manage routing traffic on IPX networks, and develop problem-solving models.
- Use various hardware and software troubleshooting tools and Cisco management tools.



388 pages  
Rs. 275.00  
ISBN-81-203-2438-2

## Operating Systems

### Working with Novell NetWare

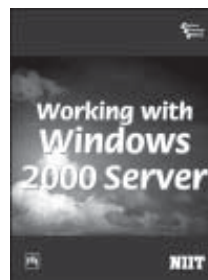


512 pages  
Rs. 325.00  
ISBN-81-203-2413-7

This book takes you to come terms with NetWare 6, the latest version of Novell's network operating system. The enhanced features of NetWare 6—eDirectory and iFolder—are elaborately discussed to explain their utility for Novell. Besides, the text also describes the architectural framework, key features, and installation methods of NetWare 6. It also delves deep into:

- Functionalities and management utilities.
- Configuration methods.
- Tasks of NetWare Remote Manager and Monitor utilities.
- Concepts of network printing.
- iPrint services.
- FTP, DNS, and DHCP.
- Security problems in networks.

### Working with Windows 2000 Server



504 pages  
Rs. 325.00  
ISBN-81-203-2392-0

An authoritative technical overview of the key features of Windows 2000 Server, this book leads the reader to a reliable network operating system. Beginning with the architecture and installation procedures of the Server and the Active Directory, it also teaches about:

- How to set up a network interface card (NIC).
- How to create and assign permissions to group policy objects (GPOs).
- Routing and remote access services.
- Concepts of disks and file systems supported by Windows 2000.
- Security management and backup process.

## Programming/Programming Language

### Advanced Programming in Java



316 pages  
Rs. 225.00  
ISBN-81-203-2415-3

This book explores the advanced features of Java and its applications in creating enhanced applications and GUIs. It gives insights into how GUIs are created using AWT and Swing; and how the components on a GUI are organized using different layout managers. There are detailed discussions of handling events generated by user actions on an interface.

Also explored are:

- The concept of threads and their utility in creating synchronized applications and creating animations.
- Using databases with Java-based applications for storing data and providing different functionalities.
- Using Swing programs to create additional components, such as trees and tabbed panes.

## ASP Programming



392 pages  
Rs. 275.00  
ISBN-81-203-2515-X

Designed primarily to teach how to create server side scripts using VB Script, this book also provides an in-depth explanation of different ASP built-in objects, and other Microsoft components used to add functionality to a Web page. A discussion on different database operations used to collect and store information from a Web page adds to the practical benefits of the book.

It covers:

- Scripting and different system architectures
- ASP file components and code writing
- Microsoft Visual InterDev application for ASP and HTML file development
- Coding using VB Script
- Classes, and objects such as ASP Session, ASP Response and Request objects
- Significance and applications of ad rotator, content linker, and browser
- Error handling
- ADO model and the properties

## Basics of Perl



324 pages  
Rs. 250.00  
ISBN-81-203-2514-1

This book in a clear and concise style presents a comprehensive overview of Perl.

Each subsequent chapter in an easy-to-understand sequence explains the specific language features, syntax, different language rules, and the functions supported by Perl.

There is complete coverage of the use of regular expressions in Perl to match specific patterns in the text for performing searches, generating statistical reports and undertaking intrusion detection. File manipulation modes and the functions used for file handling operations in Perl are explained in a detailed manner.

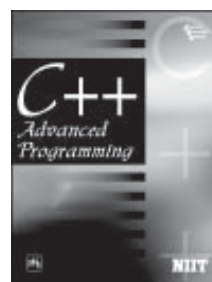
This book is an ideal start for students interested in learning the Perl programming language. After working through this book, students will have the foundation necessary to comfortably progress to more advanced learning material.

## C++: Advanced Programming

This book presents a clear, in-depth introduction to structured programming in the powerful C++ language. It focuses on practical learning through example codes.

*The coverage includes:*

- **Arrays:** Discover how to declare, initialize, access, and manipulate single and multi-dimensional arrays.
- **Pointers:** Learn how to incorporate the power of pointers into your C++ programs.
- **Recursion:** Master this powerful tool of C++ programming.
- **Linked Lists:** Find out how these data structures are employed including implementing stacks and queues.
- **Templates and Exception Handling:** Learn these advanced features to add versatility to the language.
- **Inheritance:** Learn this key notion to extend and modify previously defined classes.



304 pages  
Rs. 225.00  
ISBN-81-203-2488-9

## C++: Programming Fundamentals



372 pages  
Rs. 295.00  
ISBN-81-203-2487-0

Ideal for beginners, this book presents user-friendly introduction to the basic concepts of the C++ programming process. It offers a lucid description of the essentials of the language, and guides the reader through techniques of writing, compiling, and executing C++ programs.

### Readers will acquire skills in:

- Using basic data types and operators in C++ to work with integers, characters, and real numbers.
- Writing programs that use conditional control structures and iterative looping statements.
- Creating and destroying the objects of a class by using special class-member functions, such as *constructors* and *destructors*.

## Designing Graphical User Interface with Visual Basic 6.0



416 pages  
Rs. 295.00  
ISBN-81-203-2560-5

Sticking to an easy and comprehensive language throughout, the book presents the principles, the methodology and the process related to the user interface design.

The coverage design includes following topics:

- Design methods and methodology including the role of Visual Basic 6 IDE as a RAD tool.
- Use of forms and controls in Visual Basic 6.
- Creating and applying menus and windows, including Single Document Interface (SDI) and Multiple Document Interface (MDI).
- Creating Databases using MS-Access and Visual Data Manager. Manipulation of databases using SQL statements.
- ActiveX Controls—Datalist, Data Combo, Data Grid and Microsoft Hierarchical Flex Grid.
- Classes, Objects, Collations, and their use in Visual Basic 6. Also an introduction to object-oriented programming.

## Introduction to Computer Programming



436 pages  
Rs. 295.00  
ISBN-81-203-2428-5

Learn all about fundamentals of computer programming with a step-by-step approach to various programming concepts using Visual Basic (VB). This friendly guide provides the reader with the knowledge and tools to get started with programming.

### It helps you understand:

- Structure of a program and use of data types, variables, operators, and expressions.
- Windows-based programming including use of VB to develop GUI applications and use of forms and controls in VB.
- Use of file handling and FileSystemObject (FSO) component in programming.
- Security aspects and measures that can be incorporated while developing applications.

## Introduction to Software Application Programming



408 pages  
Rs. 295.00  
ISBN-81-203-2436-6

This book provides a systematic and organized approach to the process of developing and building reliable and cost-effective software in application areas such as real-time software, system software, business software, and so forth. Guides students through a spectrum of essential software engineering techniques and how they can be applied in practical software projects.

Readers will learn and understand:

- The use of automated tools and MS Project 2000 to create different components of a software project plan.
- How to collect requirements from users to form the SRS document and develop system models using MS Visio 2000.
- Installation and deployment processes for the developed software.

## Introduction to Visual Basic .NET



288 pages  
Rs. 225.00  
ISBN-81-203-2715-2

This text gives a clear understanding of the fundamentals of Visual Basic .NET, and equips the reader with knowledge and tools to get started with programming.

Beginning with an overview of Visual Basic .NET and its components, the text moves on to explain its application in different programming and methods for handling different types of errors. Besides, it covers the various deployment and installation methods that .NET provides and requirements about the Windows installer and Windows Logo.

The highlights of this book are:

- OOP and Visual Basic .NET
- Windows Programming in Visual Basic .NET
- Database Programming
- Web Programming in Visual Basic .NET
- Programming with GDI+

## Java: Foundations of Programming

This book brings together the fundamental concepts of Java programming and their applications. Beginning with a historical account of Java programming language and then its architecture, it tracks the path of how to use the language in an object-oriented approach.

With its illuminating and substantial coverage, you are introduced to:

- The two popular programming approaches—**procedure-oriented and object-oriented**.
- Creating classes, objects, and methods in Java.
- *Inheritance* and *Polymorphism*.
- *Exception handling* using garbage collection methods.
- Develop *applets* by adding multimedia components to better run Web browsers.
- Java Development Kit (JDK) tools—*javac* and *java*.



276 pages  
Rs. 195.00  
ISBN-81-203-2391-2

## ENGINEERING Civil Engineering

### Programming with C in Linux



220 pages  
Rs. 175.00  
ISBN-81-203-2388-2

Promising to make you an adept C programmer, this authoritative yet accessible text helps you build a strong framework for learning new programming languages. It explores the capabilities of C in the context of modern computer platforms.

It exposes you to the:

- *Key concepts and features* of any modern programming language.
- *Main components of C* programming.
- *Conditional execution* to alter default execution flow.
- *User-defined functions; pointers; and arrays.*
- The vi Editor on Linux platform and file commands in Linux.

### GIS and AutoCAD Map



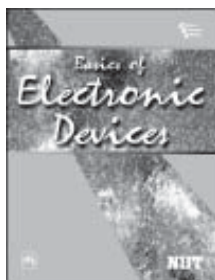
188 pages  
Rs. 175.00  
ISBN-81-203-2519-2

This book addresses the concepts of GIS and AutoCAD Map 2000i with regard to a GIS software that is used to create, maintain, analyze, and produce mapping information in a CAD environment. It explains how GIS, as a computer-assisted system, automates the process of capturing, storing, editing, updating, analyzing, and displaying geographic data.

Beginning with an overview of the evolution of GIS, its components, and technologies related to GIS, the text moves on to elucidate the use of AutoCAD Map for geo-referencing. The basics of data model and data management are covered as methods that help to represent and store geographic features.

## Electronic Engineering

### Basics of Electronic Devices



444 pages  
Rs. 325.00  
ISBN-81-203-2430-7

This book presents a thorough introduction to physics of semiconductor materials and working principles of semiconductor devices and circuits. Practice assignments are included throughout to help students comprehend overall concepts.

You will gain a detailed understanding of:

- Applications of diode as a rectifier, clipper, and clamper.
- Different types of power supply filters.
- Various circuit configurations and biasing schemes of bipolar junction transistors.
- Single-stage, multistage, and RF transistor amplifiers.
- Basics of Field Effect Transistors (FETs).

### Digital Electronics: An Introduction to Sequential Logic Design



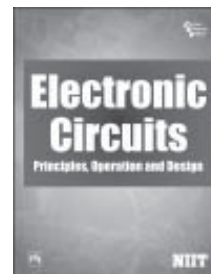
184 pages  
Rs. 175.00  
ISBN-81-203-2492-7

This book presents comprehensive coverage of the functions and characteristics of sequential logic circuits—**flip-flops, counters, and shift registers**—the components that make digital electronic systems work. It then discusses the concept of a sequential state machine and the use of this tool to describe the behaviour of sequential logic circuits, and how to analyze and design them.

An in-depth treatment of programmable logic devices is also offered to help readers develop skills in the use of these devices to implement a wide variety of sequential logic functions.

The book can be used for an introductory course in digital electronics for UG/PG science students, electrical/electronics/communication/computer science engineering students, and polytechnic students.

### Electronic Circuits—Principles, Operation and Design



328 pages  
Rs. 250.00  
ISBN-81-203-2557-5

This book emphasizes on the design and analysis of Metal-Oxide Semiconductor (MOS) transistor circuits. The MOS technology revolutionized the design of electronic circuits in the early 1970s. Since then several new technologies, such as NMOS, PMOS and CMOS have made bipolar junction transistors (BJTs) almost obsolete. However this book also discusses BJT circuit design to emphasize and illustrate the fundamental differences in comparison with MOS. The concepts in this book provide the students of electronics and physics, a strong foundation to design more advanced integrated circuits.

Covers:

- Parasitic capacitances in MOSFETs and BJTs, used for high-frequency operations.
- Power amplifiers and their types—A, B, AB, C, and D.
- Op-amp characteristics and design of various op-amp circuits.
- Design issues of NMOS and CMOS inverters; flip-flop; and CMOS, NAND, NOR, XOR gates.

### Introduction to Digital Electronics

This simple, well-organised book offers an overall coverage of the principles underlying digital electronics and the components that translate these principles to concrete applications in contemporary industrial, consumer and military equipments.

The book begins by differentiating between analog and digital electronics and goes on to explain various number systems and coding techniques and how various components work in circuits to perform logical operations.

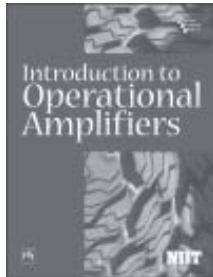
The following areas are focussed upon:

1. Common logic families, logic gates and circuit troubleshooting techniques
2. Boolean Algebra in techniques such as signal tracing and wavelength analysis
3. Functions of multiplexers, demultiplexers, encoders and decoders
4. PLDs and circuits used for generating clock signals, flip-flops and their timing parameters.



420 pages  
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ISBN-81-203-2522-2

### Introduction to Operational Amplifiers



244 pages  
Rs. 195.00  
ISBN-81-203-2564-8

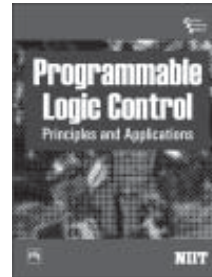
The advent and evolution of Operational Amplifiers has made revolutionary impact in the field of analog electronics during the last four decades. This book summarizes the fundamentals of op-amps and op-amp-based circuits, enable the student select the best possible circuit so that the related problems are easily identified and minimized.

The book starts with a succinct discussion on the features, properties, applications and feedback mechanism of an op-amp.

Thereafter, the topics covered are:

- Amplifiers—Inverting and Non-inverting.
- Active filters and their types.
- Oscillators with an overview to the working and applications of PLLs and the 555 timer circuit.
- Fundamentals of voltage regulators and their types.

### Programmable Logic Control: Principles and Applications



232 pages  
Rs. 195.00  
ISBN-81-203-2525-7

Since its introduction in early 60s, PLC or Programmable Logic Control has evolved to be a compact powerful tool to control different processes. PLCs are used to automate control systems.

This book covers all important aspects related to the study of PLC and its functionalities and operational details. The book covers:

- Introduction to PLC and advantages over conventional relays
- Hardware components of a PLC
- Ladder Logic diagrams
- Numbering systems and their types
- Timers, counters, sequencers, and shift registers
- Steps to plan, implement and verify the installation of PLC
- Troubleshooting a PLC

## Electronics & Communication Engineering

### Advanced Digital Communication Systems



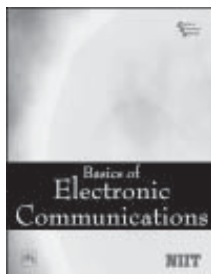
576 pages  
Rs. 350.00  
ISBN-81-203-2712-8

This comprehensive text narrates the advancement of Digital Communication Systems with the advent of various communication techniques. It explains the technology involved in digital systems by analyzing the various theories, methodologies and protocols.

The book gives an in depth analysis of advanced digital communication systems and in so doing it focusses on topics such as:

- Basics of digital communication systems with explanation on the performance of digital pulse modulation techniques in noise, etc.
- Need for synchronization and basic synchronization techniques.
- Spread spectrum techniques and their performance along with the generation and properties of spread spectrum codes in the field of digital communication.
- Study of cryptography and popular cipher systems.
- Elements of satellite communication system and its design.

### Basics of Electronic Communications

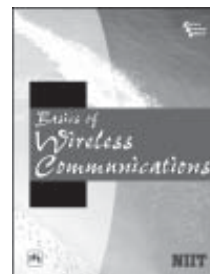


392 pages  
Rs. 275.00  
ISBN-81-203-2429-3

This text presents an easily understandable introduction to communication systems, and their types and troubleshooting techniques. Beginning with the components of a basic communication system, the text discusses:

- Concepts of generating and demodulating AM and FM signals, their various forms and applications.
- Angle modulation and its types—frequency and phase modulations.
- Direct and indirect methods of generating FM signals.
- Operation and troubleshooting techniques of AM, SSB and FM transmitters.
- Operation and performance parameters of AM, SSB and FM receivers.
- Basic principles of scanning and synchronization techniques in television communication systems.

### Basics of Wireless Communications



272 pages  
Rs. 225.00  
ISBN-81-203-2493-5

This book covers every fundamental aspect of wireless communications, from mobile telephony to networking including bluetooth, plus space-based satellite communications. It also contains information on major wireless communication standards.

The book first covers the theory of wireless communications, discusses modulation techniques, multiplexing, spread spectrum systems, voice encoding systems, and the forms of error control mechanisms used in transmission. *It then moves on to present:*

Principles of mobile telephony and implementation of SS7 protocol in voice networks. • Various types of wireless data services including Universal Mobile Telecommunications Systems (UMTS) and VoIP. • Different types of messaging services and their protocols—SMS, MMS, & IM.

### Communication Systems

This book on communication fathoms the depths of technology covered in digital systems in a concise compact style. It elaborates the different data transmission media used in digital communication. Each chapter of this text describes a medium, explaining the finer aspects and components.

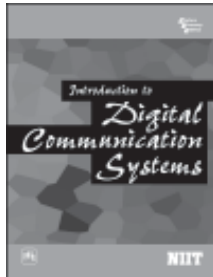
The highlights of the book are:

- Digital modulation techniques and significance of constellation diagrams and eye patterns.
- Cellular and spread spectrum communication. Also an explanation on mobile radio propagation and satellite communication.
- Antennas and radars, with details of antenna propagation.
- Microwave communication and an introduction to fiber optics and lasers.



472 pages  
Rs. 295.00  
ISBN-81-203-2559-1

## Introduction to Digital Communication Systems



280 pages  
Rs. 225.00  
ISBN-81-203-2494-3

Modern electronic communication systems use the digital communication techniques to transmit and receive information. This book discusses different methods used to convert data from analog to digital form, and the parameters that affect the performance of data transmission networks.

On completing this book, you will be well-versed with the:

- Advantages and limitations of digital communication and digital coding schemes such as pulse code modulation.
- Frame structures used for transport of coded signals over the digital communication link.
- Various methods used to enhance bandwidth, from time-division multiplexing to SONET and SDH.
- Working of radio transmission networks.

## Materials Science

### Properties and Applications of Engineering Materials— Metals, Alloys, Polymers, Ceramics, and Composites

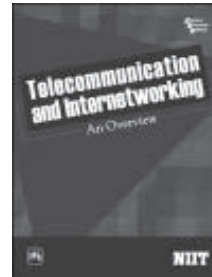


292 pages  
Rs. 225.00  
ISBN-81-203-2526-5

Focused primarily to be a useful handbook for courses in materials and metallurgical processes, the book also imparts analytical capabilities to students by enabling them to identify the appropriate material and their corresponding manufacturing processes. The book includes the steps for selecting an appropriate material and process. It provides a combination of both theoretical and practical knowledge. The chapters cover physical and mechanical properties of materials and the behavior of these materials under specific conditions such as load and stress.

It then moves further to discussing the applications of different materials based on their properties.

## Telecommunication and Internetworking: An Overview



324 pages  
Rs. 250.00  
ISBN-81-203-2439-0

This book explains the fundamentals of how data transmission occurs across a telecommunication network. It describes the components of a telecommunication network and discusses the various technologies that are being developed to meet the changing data transmission requirements.

You will also learn about:

- How analog and digital signals carry data in a telecommunication network.
- Frequency division multiplexing and time division multiplexing.
- Subscriber local loop, switching system, and transmission system of a telephone communication network.
- Various analog and digital wireless cellular networks.
- Emerging technologies such as MultiProtocol Label Switching (MPLS), Voice over IP (VoIP), and Bluetooth.

## Mechanical Engineering

### Fundamentals of Computer Numerical Control



292 pages  
Rs. 225.00  
ISBN-81-203-2562-1

The book is a practical approach to provide the students an understanding on Computer Numerical Control (CNC) machines. The book lays a concrete foundation for the student which he can then work efficiently in the industry.

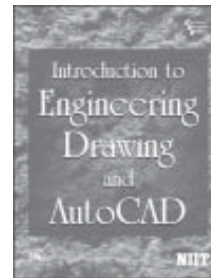
Driving devices, the basic source of linear and rotary motions in machine tools, are also explained in this illustrative text along with their working principles.

Besides this there is an in-depth coverage of Part Programming, and the applications of Part Programming in CNC Lathe Programming and CNC Mill Programming.

This book exposes the students to the state-of-the-art technology with an engrossing discussion on the role of Robots, FMS and Computer Integrated Manufacturing (CIM) in the automated industry.

The text provides some very useful Practice Questions, the solutions for which are provided in the Appendix.

### Introduction to Engineering Drawing and AutoCAD



304 pages  
Rs. 250.00  
ISBN-81-203-2558-3

Beginning with an introduction of the need and application of Technical Graphics the book stresses on the usage of graphic standards and scales, and the conventions to be followed in technical graphics.

An introduction to Computer Aided Design (CAD) is followed by a detailed description of various line types, lettering and dimensioning. The discussion on the application of these, along with an exhaustive discussion on orthographic projection, helps the students to read and interpret the technical drawing. The book also discusses sectional views with emphasis on sections of solid objects. Isometric projections are elaborated with the methods of creation of basic objects. In a nutshell, the text is a good starter for these who want to make a headway in engineering drawing and AutoCAD.

### Introduction to Engineering Materials and Manufacturing Processes, An

Ideal for first-year degree courses in engineering and students of polytechnics, this text is designed to help students understand the properties of metals, polymers and plastics, and ceramics and composite materials, as well as guide them in selection of materials for manufacturing the desired product. It also comprehensively discusses the major manufacturing processes relevant to each category of materials. The main objective is to provide rich information on the many ways in which materials can be processed, and also indicate the effect of such processing on material properties.

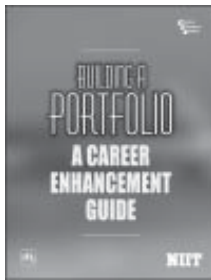
The text provides a practical approach to the subject including coverage of heat treatment processes, finishing processes, corrosion and its treatment, and inspection and quality control.



272 pages  
Rs. 175.00  
ISBN-81-203-2491-9

## GENERAL MANAGEMENT

### Building a Portfolio—A Career Enhancement Guide



284 pages  
Rs. 250.00  
ISBN-81-203-2689-X

This book provides readers with information on how to compile an effective portfolio that can also serve as a good résumé in actual job-seeking scenarios.

The book focuses on portfolio development as a tool of self-expression and as a sound resource for career development.

Recruitment techniques used by employers and tips on how to conduct oneself in an interview are elaborately described. The evolution of work structures in terms of projects, contract work, self-employment and sole-proprietorship is also explained.

This highly readable text provides strategies and guidelines to shape one's goals, skills, aspirations and technical competence into components of a portfolio for communicating effectively and for facing the challenges of career profiling.

## INSTRUCTIONAL DESIGN

### Basics of Instructional Design



316 pages  
Rs. 250.00  
ISBN-81-203-2431-5

This book is ideal for all those who work in multimedia environments to create learning material in the different areas of education. It helps students understand the different stages of the instructional design process and apply it to develop learning material to meet specific training needs.

Also covered in depth are:

- Use of ADDIE model to analyze, design, and develop a multimedia course.
- Writing objectives, a step in the design phase of the ADDIE model.
- Project management challenges that arise when developing a multimedia course and their possible solutions.
- Structuring content and evaluating learning.

## Explore Sequential Logic Circuits



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ISBN-81-203-2492-2

- Functions and characteristics of sequential logic circuits
- Concept of sequential state machine
- Indepth treatment of programmable logic devices



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