OXFORD UNIVERSITY PRESS

Computer Science Engineering Catalogue

2025-26



OUPIndia Higher Education

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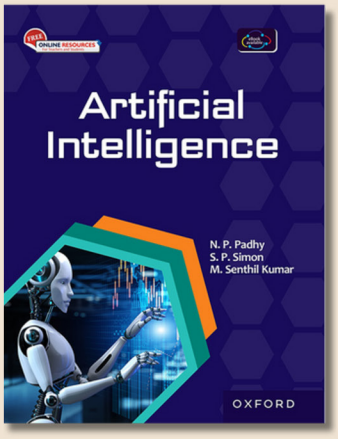
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EMERGING TECHNOLOGY SERIES

Artificial Intelligence



9789361032752
Paperback
504 pp
2025
₹795/-

ONLINE RESOURCES https://india.oup.com/orcs/9789361032752
The following resources are available to support the faculty and students using this text:
For Faculty: • PowerPoint Slides • Solutions Manual
For Students: • Projects • Reference Sections

Artificial Intelligence is a textbook designed for engineering students, IT professionals, and researchers. It bridges the gap between Artificial Intelligence (AI) and Intelligent Systems (IS), providing a thorough understanding of both fields and their applications. The book covers fundamental concepts, real-world problem-solving techniques, and current trends in AI, with a focus on practical applications and Python programming. It explores key AI topics such as knowledge representation, search strategies, and machine learning. Additionally, it delves into expert systems, fuzzy systems, neural networks, and nature-inspired algorithms. Each chapter includes detailed explanations, examples, and illustrations to facilitate in-depth understanding. This book is an essential resource for students, educators, and researchers seeking to deepen their knowledge of AI and IS, and to apply these concepts to solve complex engineering problems.

About the Authors:

Narayana Prasad Padhy, Professor (HAG) in the Department of Electrical Engineering at IIT Roorkee, is currently serving as the Chairperson (I/C) of the Board of Governors MNIT Jaipur, the Director of MNIT Jaipur and the Director of IIIT Kota, the Chair Professor of IIT Palakkad Technology IHub Foundation (IPTIF).

Sishaj P Simon, Professor and head at the Department of Electrical Electronics Engineering at the National Institute of Technology (NIT), Tiruchirappalli.

M. Senthil Kumar, is currently Assistant Professor, Department of Electrical Engineering, National Institute of Technology, Patna. He was born in Tamilnadu, India.

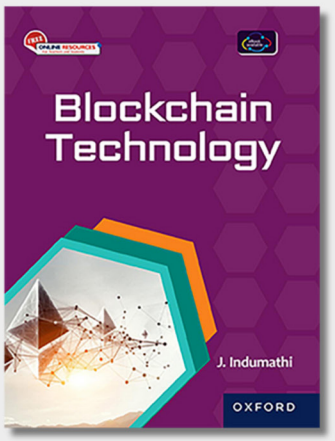
Features:

- Includes real-world examples to illustrate concepts
- Contains illustrations along with python programming in Intelligent Systems
- Covers machine learning concepts with ample exercises to learn the concept
- Includes latest topics such as deep learning neural network, machine learning and nature inspired algorithms.
- Provides numerous illustrations, examples, and end-chapter exercises for better retention of the concept

Table of Contents:

Chapter 1. Artificial Intelligence: History and applications
Chapter 2. Knowledge Representation: Reasoning, Issues, and Acquisition
Chapter 3. Heuristic Search
Chapter 4. State Space Search: Implementation and Applications
Chapter 5. Machine Learning
Chapter 6. Expert Systems
Chapter 7. Fuzzy Systems
Chapter 8. Artificial Neural Networks
Chapter 9. Deep Learning Neural Network
Chapter 10. Nature Inspired Intelligent System

Blockchain Technology



9789361034688
Paperback
600 pp
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₹750/-

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The following resources are available to support the faculty and students using this text:
For Faculty: • PowerPoint Slides • Solutions Manual
For Students: • Projects • Reference Sections

Blockchain Technology serves as an essential guide for undergraduate and postgraduate students of computer science, illuminating the revolutionary potential of this groundbreaking innovation. This comprehensive resource invites readers to dive into the intricacies of blockchain, exploring its origins, mechanics, and the myriad applications that extend far beyond cryptocurrency.

About the Author:

J. Indumathi is a Professor in the Department of Information Science and Technology at Anna University, Chennai. She is known for her broad interdisciplinary expertise across various subject areas, including Blockchain technologies, Cyber Forensics, Information Security Analytics, Privacy, Software Project Management, and FinTech.

Features:

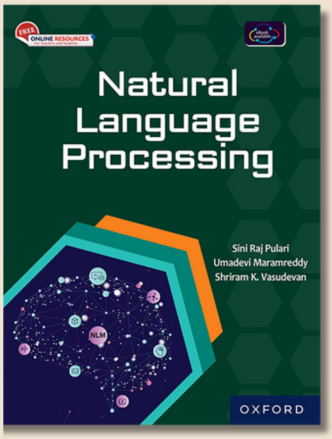
- Simple and lucid descriptions of complex blockchain concepts, using relatable analogies to enhance understanding.
- Pictorial representations and problem-solving illustrations for each blockchain operation, ensuring readers can visualize transformations effectively.
- Real-world case studies that demonstrate the practical applications and power of blockchain technology in various sectors.
- Each section builds on the previous one, addressing challenges in earlier technologies and showcasing how blockchain overcomes them.
- A glossary of key terms and concise summaries at the end of each chapter to facilitate quick revision of important concepts.
- Chapter-end questions designed to encourage critical thinking and exploration of upcoming concepts independently.

Table of Contents:

PART I: INTRODUCTION TO BLOCKCHAIN
Chapter 1. Fundamentals of Blockchain
Chapter 2. Blockchain Structure
Chapter 3. Types of Blockchain Networks
Chapter 4. Decentralisation Using Blockchain
Chapter 5. Consensus Mechanisms
PART II: BITCOIN
Chapter 1. History of Bitcoin
Chapter 2. Technology Behind Bitcoin
Chapter 3. Structure of Bitcoin
Chapter 4. Bitcoin Mining and Consensus
Chapter 5. Bitcoin Networks, Storage and Cryptocurrencies
PART III: ETHEREUM
Chapter 1. Ethereum Initiative
Chapter 2. Ethereum Basics
Chapter 3. Ethereum Transactions, Gas
Chapter 4. Ethereum Ecosystem
Chapter 5. Ethereum Core Mechanics
PART IV: HYPERLEDGER FABRIC
Chapter 1. Hyperledger Odyssey
Chapter 2. Hyperledger Fabric Basics
Chapter 3. Hyperledger Fabric Architecture
Chapter 4. Hyperledger Fabric Architectural Components
Chapter 5. The Mechanics Within Hyperledger Fabric
PART V: BLOCKCHAIN USE CASES
Chapter 1. Use Cases in Blockchain

Natural Language Processing

eBook available



9789361036026
Paperback
256 pp
2025
₹499/-

ONLINE RESOURCES https://india.oup.com/orcs/9789361036026
The following resources are available to support the faculty and students using this text:
For Faculty
- PowerPoint Slides
- Solutions Manual

For Students
- Projects
- Reference Sections

The book begins by laying the groundwork in Machine Learning (ML) and Deep Learning (DL), introducing key Natural Language Processing (NLP) applications and challenges such as Word Sense Disambiguation. Readers are guided through the configuration of essential software tools like NLTK, Anaconda, and Jupyter Notebooks, preparing them for hands-on exercises. Advanced NLP concepts are thoroughly explored, including Regular Expressions, TF-IDF, Word2Vec, and Named Entity Recognition (NER), with practical implementations of Sentiment Analysis and Topic Modeling. The text provides an in-depth examination of Recurrent Neural Networks (RNNs), Long Short-Term Memory networks (LSTMs), and state-of-the-art Transformer-based models such as BERT and GPT-3, offering step-by-step guidance on fine-tuning these models for specific tasks. Ethical considerations in NLP, particularly issues related to AI model bias and responsible AI deployment, are also addressed in detail.

About the Authors:

Sini Raj Pulari is a research scholar in the Department of Computer Science and Engineering at Vignan's Foundation for Science, Technology and Research, and also serves as a Program Manager at Bahrain Technical College.

Umadevi Maramreddy is an Associate Professor in the Department of Computer Science and Engineering at Vignan's Foundation for Science, Technology and Research.

Shriram K. Vasudevan is Lead – Technical (Generative AI and AI Software Tools Ecosystem Specialist) at Intel Corporation.

Features:

- Blends theoretical and practical insights on NLP techniques and tools
- Includes lucid explanation of concepts using real-life examples
- Incorporates supplementary material, such as lecture videos and programming examples, for better understanding of concepts
- Illustrates concepts with examples from Indian languages
- Consists multiple-choice questions for each chapter

Table of Contents:

Chapter 1. Introduction to Machine Learning and Deep Learning
Chapter 2. Natural Language Processing – An Introduction
Chapter 3. The Installations for NLP
Chapter 4. Regular Expressions – Must Know Pre-requisite for NLP
Chapter 5. Introduction of Important Terminologies in NLP and Text Pre-processing
Chapter 6. Semantic Inference in NLP
Chapter 7. Named Entity Recognition – A Detailed Walkthrough
Chapter 8. Word Embeddings in NLP
Chapter 9. Text classification in NLP – A Quick Walk Through
Chapter 10. The RNNs, LSTMs, and GRUs – A Walk Through
Chapter 11. Transformer Based Models in NLP
Chapter 12. Text Summarization Techniques in NLP
Chapter 13. Real-time case studies with Natural Language Processing
Chapter 14. Ethical Considerations in NLP and Bias Mitigation
Chapter 15. Prompt Engineering – A Quick Review

Design Thinking

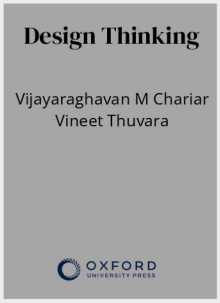
Forthcoming

Design Thinking is more than a methodology—it's a mindset. This groundbreaking book invites readers to step beyond their comfort zones and embrace the courage to innovate with empathy, purpose, and creativity. Uniquely integrating the emotional and ethical dimensions of design, it explores how enduring values can be embedded into the creation of products, systems, and services—bringing joy not only to users but also to the soul of the design itself. Whether you're a business leader, a social innovator, or a student of design, this book offers a powerful framework that bridges the tangible and the intangible. It applies design thinking to both commercial innovation and social impact, making it a versatile guide for anyone seeking to create meaningful change. Ideal as a university textbook or a practical manual for design teams, Design Thinking is a call to harmonize innovation with integrity—and to design a better world from the inside out.

About the Author:

Vijayaraghavan M Chariar is professor, Centre for Rural Development and Technology (CRDT), IIT Delhi

Vineet Thuvara is the Chief Product Officer at Fluke Corporation, one of world's leading test and measurement devices and services company.



Features:

- Complete and comprehensive coverage of the syllabus requirement
- Numerous multiple-choice questions and projects for students to practice
- Easy language and numerous pertinent illustrations to help students understand the concepts easily
- Coverage of concepts with real-life examples and case studies

ISBN: TBA
Year: 2026
Extent: 400 pp

FORTHCOMING

Machine Learning
(Second Edition)

This second edition of *Machine Learning* is designed as a textbook for undergraduate and post-graduate students of engineering. It provides a comprehensive coverage of fundamentals of machine learning. Spread over 19 chapters, the book starts with an overview of machine learning and discusses the need for understanding data and necessary mathematics. It goes on to explain the basics of learning theory, regression analysis, decision tree, and decision rule-based classification algorithms. The book introduces Bayesian learning and probabilistic graphical models. Important topics such as support vector machines, artificial neural networks, ensemble learning, clustering algorithms, reinforcement algorithms, and genetic algorithms are discussed in depth. It ends with the latest developments in deep learning. A perfect balance between theoretical and mathematical exposition is provided with several numerical examples, review questions, and Python programs. It will also be useful for engineering professionals and IT employees who want to learn the basics of the subject.

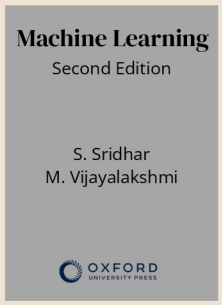
About the Authors:

S. Sridhar is a Professor in the Department of Information Science and Technology at the College of Engineering, Guindy Campus, Anna University, Chennai.

M. Vijayalakshmi is an Associate Professor in the Department of Information Science and Technology at the College of Engineering, Guindy Campus, Anna University, Chennai.

Features:

- Includes new chapters on Mathematical Foundations of ML, Data Preprocessing and Feature Engineering and Exploratory Data Analysis
- Adopts an 'Algorithmic Approach' to illustrate the concepts of machine learning in a simple language with 100+ numerical problems
- Provides 'Simple Explanation' to topics such as clustering, support vector machines, genetic algorithms, artificial neural networks, ensemble learning, and deep learning
- Contains 'Appendices' that discuss the basics of Python and Python packages such as NumPy, Pandas, Scikit-learn, Matplotlib, SciPy, and Keras



ISBN: 9789367252901
Year: 2026
Extent: 600 pp

Cyber Security

Cyber Security is a comprehensive guide that empowers readers with essential knowledge and practical strategies to safeguard their digital lives and assets. From personal cybersecurity practices to enterprise-level defense strategies, this book covers a wide range of topics, making it accessible to both individuals and professionals in the field. The book covers a wide spectrum of cybersecurity topics, including threat landscapes, risk assessment, network security, application security, and incident response. Readers will find actionable advice and step-by-step instructions on implementing security measures, conducting risk assessments, and responding to cyber incidents. The book includes real-world case studies and examples to illustrate cybersecurity concepts, providing readers with practical insights into common threats and vulnerabilities.

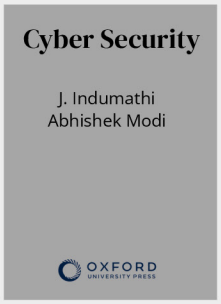
About the Authors:

J. Indumathi Professor; Department of Information Science and Technology, College of Engineering Guindy Campus, Anna University, Chennai

Abhishek Modi, IPS 2011 WB, DCP(Cyber Crime), Kolkata Police

Features:

- The book covers a wide spectrum of cybersecurity topics, including threat landscapes, risk assessment, network security, application security, and incident response.
- Readers will find actionable advice and step-by-step instructions on implementing security measures, conducting risk assessments, and responding to cyber incidents.
- The book includes real-world case studies and examples to illustrate cybersecurity concepts, providing readers with practical insights into common threats and vulnerabilities.
- Practical exercises and labs are included to help readers reinforce their understanding and apply concepts in a controlled environment.



ISBN: TBA
Year: 2026
Extent: 440 pp

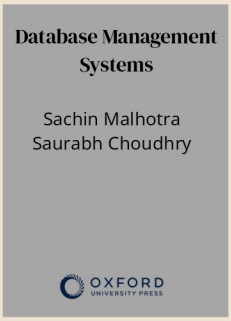
Database Management Systems

Database Management Systems (DBMS) offers a comprehensive blend of theoretical and practical approaches to learning database systems. It explains complex concepts using relatable examples from daily life, making it easier for students to grasp the material. The book includes detailed appendices that feature a case study on MongoDB, as well as SQL and PL/SQL lab exercises complete with solutions. This combination of theory, practical application, and real-world examples ensures that readers gain a thorough understanding of DBMS. Ideal for undergraduate engineering students, this book is designed to bridge the gap between academic learning and practical implementation.

About the Authors:

Sachin Malhotra, Dean—Academic Affairs, Krishna Engineering College, Ghaziabad

Saurabh Choudhry, Teaching, Faculty and Chief Proctor, Krishna Engineering College, Ghaziabad



ISBN: TBA
Year: 2026
Extent: 656 pp

Features:

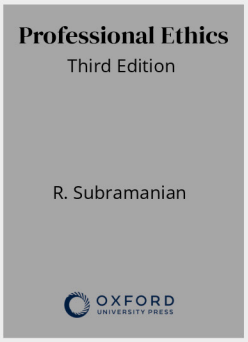
- Complete and comprehensive coverage of the syllabus requirement
- A blend of theoretical and practical approaches of learning database systems
- Concept explanation using examples from daily life
- Appendices that discuss case studies on MongoDB, SQL and PL/SQL Lab Exercises with solutions

Professional Ethics
(Third Edition)

Professional Ethics is a textbook designed for students pursuing professional courses such as engineering or management and is written in an easy-to-understand manner with plenty of case studies to instill in students the need to follow ethical principles in life. The book provides examples from a wide spectrum of professions, which would stimulate thinking and help internalize the value systems and ethical behaviour that is expected of a professional.

About the Author:

R. Subramanian retired as professor and head of the civil engineering department at the National Institute of Technical Teachers' Training and Research (NITTTR), Chandigarh.



ISBN: 9789367256060
Year: 2025
Extent: 472 pp

Features:

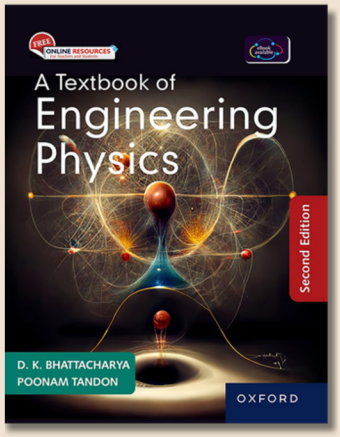
- Discussion on the Sustainable Development goals of the United Nations.
- Detailed discussion on the ethical framework, principles and implications guiding the usage of artificial intelligence in various technologies.
- Includes details of the COP 2024 focusing on ways to stop global warming, NEP 2020 National Skills Mission and CSR rules in India.
- Supports theory with real life examples & exhibits interspersed in the text
- Multiple choice questions and community service activities at the end of every chapter.



NEW RELEASES

A Textbook of Engineering Physics
(Second Edition)

eBook available



A Textbook of Engineering Physics is tailored to meet the needs of first-year engineering students. It also serves as a reference book for undergraduate science (B.Sc.) students, scientists, technologists, and practitioners across various branches of engineering. With a focus on real-world examples and problem-solving, this book presents the fundamental concepts of physics in an accessible and engaging manner.

About the Authors:

D. K. Bhattacharya is a former Scientist 'H' (Outstanding Scientist) at the Defence Research and Development Organization (DRDO). He is currently engaged in research in the field of Spintronics.

Poonam Tandon is currently a Professor in the Department of Applied Sciences at Maharaja Agrasen Institute of Technology, affiliated with GGSIP University, New Delhi.

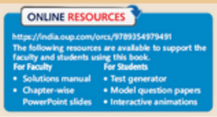
Features:

- Close to 450 solved examples and over 400 self-explanatory illustrations which aid in the understanding of concepts
- Summary of concepts, applications, and key formulae at the end of each chapter for quick recapitulation
- Around 1400 chapter-end exercises including multiple-choice questions, review questions, and numerical problems listed under the self-assessment section for practice

Table of Contents:

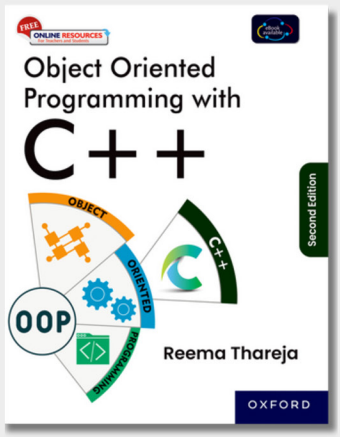
Part I – Optics, Waves, and Acoustics
Part II – Mechanics
Part III – Electromagnetism
Part IV – Solid State Physics
Part V – Nuclear Physics and New Engineering Materials
Part VI – Quantum Computing
Part VII – Thermodynamics

9789354979491
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₹795/-



Object Oriented Programming with C++
(Second Edition)

eBook available



The second edition of *Object Oriented Programming with C++* is meticulously crafted to cater to the needs of undergraduate students pursuing computer science engineering, information technology, and postgraduate students of computer applications.

About the Author:

Reema Thareja is Assistant Professor in the Department of Computer Science, Shyama Prasad Mukherji College, University of Delhi. In her 18 years of teaching experience, she has taught several courses including BA, BSc, MSc, BBA, MBA, BCA, and MCA.

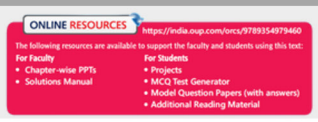
Features:

- Explains the concepts of object oriented programming in accessible language and in connection to real-life problems as per NEP recommendations
- Offers numerous executable programs on Dev C++ and g++ compilers, complete with outputs, to help readers enhance their programming skills
- Includes notes and programming tips to reinforce critical concepts and best practices in program development
- Features case studies with interspersed programs within the text to demonstrate the practical implementation of concepts

Table of Contents:

Chapter 1. Problem-Solving and Programming
Chapter 2. Introduction to Object-Oriented Programming (OOP)
Chapter 3. Basics of C++ Programming
Chapter 4. Decision Control and Looping Statements
Chapter 5. Functions
Chapter 6. Arrays
Chapter 7. Strings
Chapter 8. Pointers
Chapter 9. Structure, Union, and Enumerated Data Types
Chapter 10. Classes and Objects
Chapter 11. Constructors and Destructors
Chapter 12. Operator Overloading and Type Conversions
Chapter 12. Operator Overloading and Type Conversions
Chapter 13. Inheritance and Run-Time Polymorphism
Chapter 14. File Handling
Chapter 15. Templates
Chapter 16. Exception Handling
Chapter 17. STL and New Features in C++
Chapter 18. Object-Oriented System Analysis, Design, and Development

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Communication Skills

(Third Edition)

eBook available



9789354978555

Paperback

584 pp

2024

₹790/-



The Third Edition of *Communication Skills* has been designed to meet the diverse needs of the learners in the fields of Engineering, Science, Management, Arts, Commerce, Mass Communication and Journalism, and also for candidates appearing in various competitive exams. Containing exhaustive content with multiple examples, illustrations, and exercises, the book aims at equipping readers with an ability to use English in their oral and written communication with confidence, clarity, and accuracy. Written with a precise understanding of the challenges that young professionals encounter in the global work scenario, the book would be highly useful for readers to enhance their professional communication skills.

About the Authors:

Sanjay Kumar, Associate Professor, JK Lakshmipat University, Jaipur

Pushp Lata, Head, Department of Languages, BITS Pilani

Features:

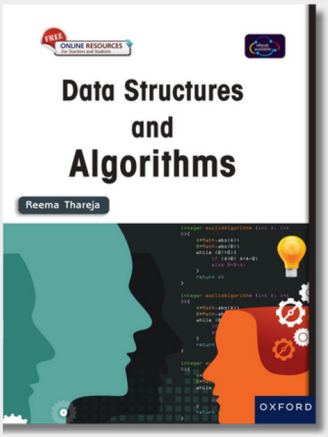
- Practice tests and chapter-end exercises
- Updated passages and examples from real-life scenario
- Sample memos, reports, proposals, résumés and more
- Interactive features such as audio recordings of conversations and listening exercises that can be accessed through QR codes

Table of Contents:

Part I – Fundamentals of Communication
Part II – Modern English Grammar and Usage
Part III – English for Competitive Exams
Part IV – Listening Skills for Career Development
Part V – Speaking Skills for Professional Success
Part VI – Reading Skills for Critical Comprehension
Part VII – Writing Skills for Academic Success
Part VIII – Writing Skills for Professional Preparedness
Part IX – Writing Skills for Professional Advancement

Data Structures and Algorithms

eBook available



9789367252673

Paperback

520 pp

2025

₹725/-



Data Structures and Algorithms is designed for undergraduate and postgraduate students of computer science, information technology, and related fields, as well as professionals seeking to upgrade their skills. It offers a thorough exploration of data structures and algorithms, combining clear explanations with real-world examples. The content is structured to facilitate both learning and teaching, making it an invaluable resource for students and educators alike.

About the Author:

Reema Thareja is Assistant Professor, School of Open Learning, University of Delhi.

Features:

- Covers both fundamental and advanced topics, providing a complete guide to data structures and algorithms.
- Explains concepts in a clear and concise manner, making them accessible to readers with varying levels of experience.
- Includes numerous examples and illustrations to help readers understand how data structures and algorithms are applied in real-world scenarios.
- Contains detailed analysis of algorithm efficiency, helping readers understand the trade-offs involved in different approaches.
- Covers both classical and contemporary data structures and algorithms, ensuring that readers are upto-date with the latest developments in the field.

Table of Contents:

Chapter 1. Introduction to Data Structures and Algorithms
Chapter 2. Analysis Tools for Algorithms
Chapter 3. Recursion and Backtracking
Chapter 4. Arrays
Chapter 5. Strings
Chapter 6. Linked Lists
Chapter 7. Stacks
Chapter 8. Queues
Chapter 9. Trees
Chapter 10. Efficient Binary Trees
Chapter 11. Multi-way Search Trees
Chapter 12. Heaps
Chapter 13. Graphs
Chapter 14. Searching and Sorting
Chapter 15. Hashing and Collision
Chapter 16. Algorithm Design Techniques
Chapter 17. Greedy Approach
Chapter 18. Dynamic Programming
Chapter 19. Complexity Classes

Big Data Analytics

eBook available



9780199455508

Paperback

432 pp

2020

₹825/-

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The following resources are available to support the faculty and students using this text:
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• PowerPoint Slides
For Students
• Interview Questions with Answers

Big Data Analytics presents a comprehensive treatment of the subject for undergraduate and postgraduate students of computer science and engineering, information technology, and other related disciplines. The book begins by covering the basics of analytics before progressing to big data and its analytical techniques. It aims to bridge the gap between theoretical concepts and practical applications, translating the theory behind big data into actionable principles and practices for data analysts.

About the Authors:

G. Sudha Sadasivam is Professor and Head of the Department of Computer Science and Engineering, PSG College of Technology, Tamil Nadu.

R. Thirumahal is an Assistant Professor (Selection Grade) in the Department of Computer Science and Engineering at PSG College of Technology, Tamil Nadu.

Features:

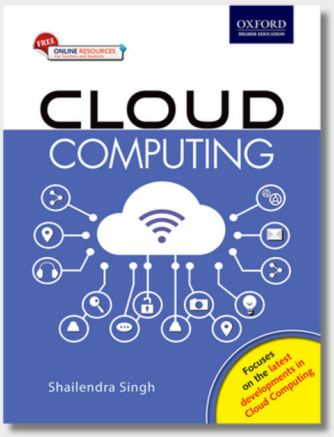
- Chapter outlines and learning outcomes listed at the start of each chapter
- Illustrative discussion on big data frameworks and infrastructure
- Algorithms for data analytics on big data frameworks and tools
- Solved numerical examples to supplement the text
- Practice exercises and codes for various case studies on Hadoop, R, Spark, MongoDB, Storm, and Neo4j
- Interview questions highlighted as boxed items in each chapter
- Point-wise summary at the end of each chapter to enable quick revision
- Chapter-end exercises comprising objective-type questions with answers, critical thinking questions, descriptive type questions, and numerical exercises

Table of Contents:

Chapter 1. Introduction to Big Data Analytics
Chapter 2. Data Analytics Life Cycle
Chapter 3. Introduction to R
Chapter 4. NoSQL
Chapter 5. Hadoop
Chapter 6. Introduction to Preprocessing
Chapter 7. Theory and Methods: Association Rules
Chapter 8. Theory and Methods: Clustering
Chapter 9. Regression
Chapter 10. Classification
Chapter 11. Time Series Analysis
Chapter 12. Theory and Methods: Text Analysis
Chapter 13. Mining Data Streams
Chapter 14. NoSQL Databases: Neo4j and MongoDB
Chapter 15. Big Data Technology and Tools: Spark and Storm
Chapter 16. Big Data Infrastructure

Cloud Computing

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The following resources are available to support the faculty and students using this text:
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• Chapter-wise PPTs
For Students
• Additional MCQs with answers
• Two model question papers

Cloud Computing is a textbook designed for undergraduate computer science and information technology students across all Indian universities, offering an introductory course on the subject. Beginning with the origins of cloud computing and the major factors influencing its development, the book delves into core topics such as architecture, service models, cloud data centers, and virtualization concepts at both the system and network levels. Key components like infrastructure, security, and platforms—central to understanding cloud computing—are discussed in dedicated chapters. The final chapter explores futuristic trends, covering topics such as application-specific cloud computing, groupware cloud, T-Systems, and CometCloud.

About the Author:

Shailendra Singh is presently Professor, Computer Science and Engineering, National Institute of Technical Teachers' Training and Research (Unde r Ministry of Human Resource Development, Govt. of India), Bhopal

Features:

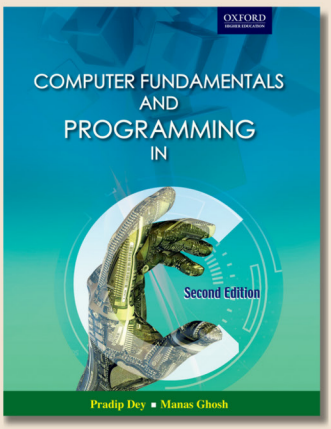
- Discusses cloud computing models, cloud data center, virtualization technology both at the system and network level, and the architecture in detail
- Covers topics such as Cloud Platforms and Security, that are central to the subject, in separate chapters
- Provides a well-written points-to-remember section, review questions, key terms with explanation, and multiple-choice questions at the end of every chapter
- Includes appendices with study of Amazon network, Microsoft, Salesforce.com, Eucalyptus, Aneka, and Hypervisors
- Comes with Model Question Papers from different universities

Table of Contents:

Chapter 1. Overview of Cloud Computing
Chapter 2. Factors that Affect Cloud Computing
Chapter 3. Cloud Computing Architecture
Chapter 4. Models of Cloud Computing
Chapter 5. Cloud Data Center
Chapter 6. Virtualization Technology (At Server)
Chapter 7. Virtualization Technology (At Network)
Chapter 8. Virtualization Technology (At Desktop and Application)
Chapter 9. Cloud Infrastructure Management and Migration
Chapter 10. Security Issues of Cloud Computing
Chapter 11. Computing Platforms
Chapter 12. Advanced Technologies in Cloud Computing

Computer Fundamentals and Programming in C

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Computer Fundamentals and Programming in C, 2e is designed to serve as a textbook for students of engineering (BE-BTech), computer applications (BCA-MCA), and computer science (BSc) for an introductory core course on computers and programming in C. It provides a thorough understanding of the subject and its applications.

About the Author:

Pradip Dey is currently a faculty member at the RCC Institute of Information Technology, Kolkata. He brings over 15 years of teaching experience and approximately 24 years of industry experience.

Manas Ghosh, also a faculty member at the RCC Institute of Information Technology, Kolkata, has more than 13 years of experience in teaching and software development.

Features:

- Offers plenty of application-based solved examples
- Explains the fundamental concepts of programming in C
- Illustrates widely used library functions with program codes and test cases
- Highlights the common mistakes to indicate the possible problem areas
- Highlights C99 features wherever relevant in the text
- Provides numerous review questions and programming exercises at the end of each chapter

Table of Contents:

Chapter 1. Computer Fundamentals
Chapter 2. Number Systems and Binary Arithmetic
Chapter 3. Boolean Algebra and Logic Gates
Chapter 4. Introduction to Software
Chapter 5. Basic Concepts of Operating Systems
Chapter 6. The Internet
Chapter 7. Introduction to Algorithms and Programming Concepts
Chapter 8. Basics of C
Chapter 9. Input and Output
Chapter 10. Control Statements
Chapter 11. Arrays and Strings
Chapter 12. Functions
Chapter 13. Pointers in C
Chapter 14. User-defined Data Types and Variables
Chapter 15. Files in C
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About the Author:

Reema Thareja is presently Assistant Professor, Department of Computer Science, Shyama Prasad Mukherji College for Women, University of Delhi.

Features:

- Provides exhaustive coverage of computer fundamentals,
- focusing on both the hardware as well as software components
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- Covers user-defined data types (arrays, strings, structures, unions) in detail, with each of the operations on these data types implemented using numerous example codes
- Includes case studies after select chapters

Table of Contents:

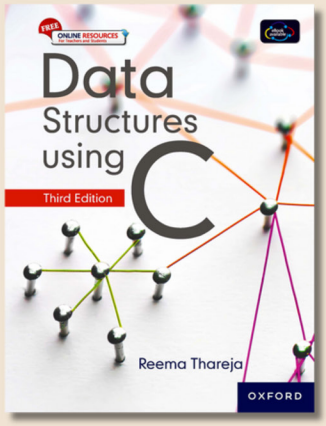
PART I: Computer Fundamentals
Chapter 1. Introduction to Computers
Chapter 2. Input and Output Devices
Chapter 3. Computer Memory and Processors
Chapter 4. Number Systems and Computer Codes
Chapter 5. Boolean Algebra and Logic Gates
Chapter 6. Computer Software
Chapter 7. Computer Networks and the Internet
Chapter 8. Designing Efficient Programs

PART II: Programming in C
Chapter 9. Introduction to C
Chapter 10. Decision Control and Looping Statements
Chapter 11. Functions
Chapter 12. Arrays
Chapter 13. Strings
Chapter 14. Pointers
Chapter 15. Structure, Union, and Enumerated Data Type
Chapter 16. Files
Chapter 17. Preprocessor Directives
Chapter 18. Introduction to Data Structures

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- Additional C Programs
- Interview and Quiz Questions

The third edition of *Data Structures using C* is a comprehensive textbook designed for undergraduate engineering students of computer science and postgraduate students of computer applications. It aims to provide a solid understanding of the fundamental concepts of data structures and their implementation using the C programming language. The book covers all the essential topics of data structures, including arrays, linked lists, stacks, queues, trees, and graphs, providing readers with a thorough understanding of each concept's strengths and limitations.

About the Author:

Reema Thareja is presently Assistant Professor, Department of Computer Science, Shyama Prasad Mukherji College for Women, University of Delhi.

Features:

- Sections on best practices to be followed while writing a C program, need and selection of a data structure
- Updated chapters to demonstrate real-world applications of data structures
- Appendices on code optimization techniques and case studies Practical implementation of the algorithms using tested C programs
- Objective type questions to enhance the analytical ability of the students
- Online Resources For Instructors Solution Manual PowerPoint PresentationProjects For Students Chapter-wise Programming exercises
- Additional C ProgrammesInterview and Quiz questions

Table of Contents:

Chapter 1. Introduction to C
Chapter 2. Introduction to Data Structures and Algorithms
Chapter 3. Arrays
Chapter 4. Strings
Chapter 5. Structures and Unions
Chapter 6. Linked Lists
Chapter 7. Stacks
Chapter 8. Queues
Chapter 9. Trees
Chapter 10. Efficient Binary Trees
Chapter 11. Multi-way Search Trees
Chapter 12. Heaps
Chapter 13. Graphs
Chapter 14. Searching and Sorting
Chapter 15. Hashing and Collision
Chapter 16. Files and Their Organization

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Data Structures using Python provides an introduction to the design, analysis, and implementation of data structures using the powerful Python programming language. This book is designed as a first course on the subject and is written for undergraduate students of computer science, information technology, and allied disciplines. Spread over 13 chapters and an appendix, this book begins with an overview of the concept, need, nomenclature followed by chapters on Arrays, Stacks and Queues, Linked Lists, Binary Trees, Search Trees, Priority Queues and Heaps, Hash Tables and Sets, Memory Management, and Graphs.

About the Authors:

Shriram K. Vasudevan is the Principal at K. Ramakrishnan College of Technology, Samayapuram, Trichy, Tamil Nadu.

Abhishek S. Nagarajan is a Data Scientist at [24]7.ai. A multi-faceted engineering graduate, he is also a programmer, research enthusiast, author, teacher, and motivational speaker.

Karthick Nanmaran is an Assistant Professor in the Department of Computer Science and Engineering at SRM Institute of Science and Technology, Chennai.

Features:

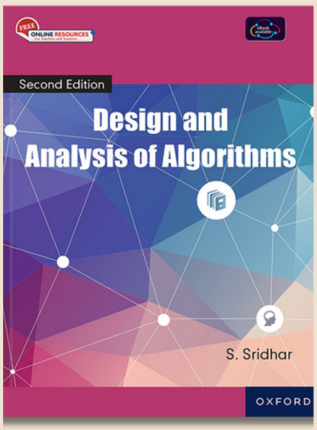
- Offers Simple and Lucid explanations for complex Data Structure concepts using analogies from real-world objects/systems
- Includes 170+ Codes and 190+ Figures, illustrating the concepts
- Comes with 300+ Chapter-end Exercises including multiple-choice questions, theoretical review questions, and exploratory application exercises.
- Provides 150+ 'Food for Brain' mid-chapter questions, picto puzzles, and mini projects, and 60+ Solved Examples

Table of Contents:

Chapter 1. Data Structures — Introduction
Chapter 2. Abstract Data Type and Analysis
Chapter 3. Linear Data Structures
Chapter 4. Continuous Memory-Based Linear Data Structures
Chapter 5. Pointer-Based Linear Data Structures
Chapter 6. Pointer-Based Hierarchical Data Structures
Chapter 7. Search Trees
Chapter 8. Priority Queues and Heaps
Chapter 9. Other Non-Linear Data Structures
Chapter 10. Memory Management
Chapter 11. Graphs
Chapter 12. Sorting
Chapter 13. Searching

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- Python Code
- MCQ for each chapter

The second edition of *Design and Analysis of Algorithms* is an essential textbook for undergraduate and postgraduate students in computer science and information technology. This book is useful for other engineering branch students who opt for algorithms courses, diploma students and postgraduate students in computer applications. The book is also useful for competitive examinations like GATE and useful for coding interviews. Its primary goal is to equip students with comprehensive knowledge of fundamental concepts related to algorithm design, analysis and implementation aspects of algorithms.

About the Author:

S. Sridhar is Professor at the Department of Information Science and Technology, College of Engineering, Guindy campus, Anna University, Chennai.

Features:

- In-depth treatment for topics such as Divide and conquer, greedy approach, dynamic programming, transform-and-conquer technique, decrease-and-conquer technique, linear programming, and randomized and approximation algorithms
- Extensive discussion on computational skills, algorithm writing and analysis of iterative and recursive algorithms
- Extensive discussion on the developing and designing aspects of algorithms using minimal mathematics
- Many numerous examples to assist understanding of the concepts
- Judicious presentation of algorithms using a step-wise approach throughout the text
- Historical notes on various topics and chapter-end crossword puzzles provided to engage readers and enhance their interest in the subject

Table of Contents:

Chapter 1. Introduction to Algorithms
Chapter 2. Basics of Algorithm Writing
Chapter 3. Basics of Algorithm Analysis
Chapter 4. Mathematical Analysis of Recursive Algorithms
Chapter 5. Data Structures – I
Chapter 6. Data Structures – II
Chapter 7. Brute Force Approaches
Chapter 8. Divide-and-Conquer Approach
Chapter 9. Decrease-and-Conquer Approach
Chapter 10. Time–Space Tradeoffs
Chapter 11. Greedy Algorithms
Chapter 12. Transform-and-Conquer Approach
Chapter 13. Dynamic Programming
Chapter 14. Backtracking
Chapter 15. Branch-and-Bound Technique
Chapter 16. String Algorithms
Chapter 17. Iterative Improvement and Linear Programming
Chapter 18. Basics of Computational Complexity
Chapter 19. Randomized Algorithms
Chapter 20. Approximation Algorithms
Chapter 21. Parallel Algorithms

Internet of Things
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- Lecture PPTs

For Students
- Project ideas (with hints)
- MCQs

Internet of Things is designed for students of computer science, information technology, and electronics and communication engineering to understand the interconnection and integration of the physical world with cyberspace, and to apply this knowledge in designing and developing IoT applications. This textbook serves as a valuable resource for both undergraduate and postgraduate programs offering courses in this domain.

About the Authors:

Surya Durbha is Professor at CSRE, Indian Institute of Technology Bombay (IITB).

Jyoti Joglekar is Professor in the Department of Computer Engineering at K. J. Somaiya College of Engineering (KJSCE), Somaiya Vidyavihar University (SVU), Mumbai.

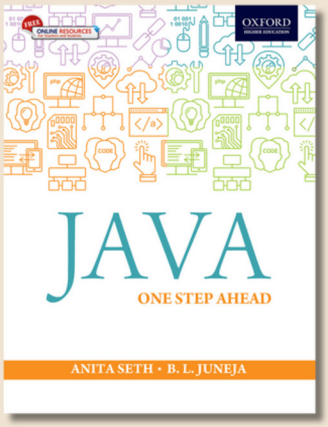
Features:

- Approaches IoT in an application-oriented manner—connecting the foundational aspects of the subject with its relevance in real-life applications.
- Includes dedicated chapters on Business Process Management, Edge Analytics, Big Data, Embedded
- Ample solved exercises and illustrations in the text to aid students in self-study HPC, and Interoperability
- Provides programming exercises in Python and Java in the relevant chapters

Table of Contents:

Part I: Foundational Aspects
Part II: Understanding the Nuts and Bolts of IoT Hardware, Software, and Middleware
Part III: IoT Big Data Science and Analytics
Part IV: Data Management in IoT
Part V: Compelling Use Cases of IoT

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Java—One Step Ahead is a textbook designed for undergraduate students of computer science, information technology, and computer applications. Authored by Dr. Anita Seth from IET, DAVV, Indore, and Dr. B. L. Juneja, a former Professor at IIT Delhi, the book aims to build a strong foundation in core concepts and develop efficient programming skills in Java.

About the Authors:

Anita Seth is presently serving as faculty at Institute of Engineering and Technology, DAVV, Indore and has a teaching experience of more than ten years.

B.L. Juneja is former professor at the department of mechanical engineering, Indian Institute of Technology, Delhi.

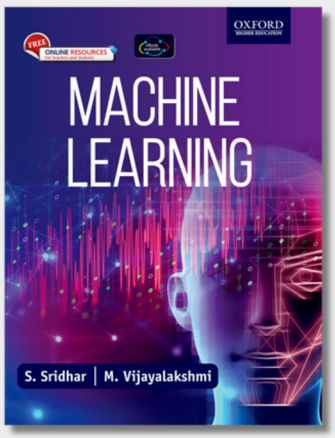
Features:

- Detailed coverage of topics such as AWT and Swings, Event handling, Networking, Generic programming, and Collections
- Dedicated chapters on advanced topics such as JDBC, Servlets, and Java Beans
- Complete and tested programs (using JDK 8) given along with their outputs and explanations
- Notes, cartoon figures, and callouts interspersed throughout the text to explain the relevant concepts
- Separate section on common programming errors and error prevention tips provided to help readers practise good programming style
- Plenty of chapter-end exercises include MCQs, review questions, and programming exercises provided to help readers apply the learnt concepts
- Includes debugging exercises, mini projects, and case studies at the end of the chapters to help readers learn implementation of the concepts

Table of Contents:

Chapter 1. Object-oriented Programming and Evolution of Java
Chapter 2. Program Structure in Java
Chapter 3. Data Types, Variables, and Operators
Chapter 4. Control Statements
Chapter 5. Classes and Objects
Chapter 6. Methods
Chapter 7. Arrays
Chapter 8. Inheritance
Chapter 9. Interfaces
Chapter 10. Packages and Java Library
Chapter 11. Exception Handling
Chapter 12. String Handling in Java
Chapter 13. Multithreaded Programming
Chapter 14. Generic Programming
Chapter 15. Image Handling in Java
Chapter 16. Collections
Chapter 17. Input/Output Streams and File Operations
Chapter 18. Applets
Chapter 19. Event Handling
Chapter 20. Creating GUIs in AWT Windows
Chapter 21. Drawing in AWT Windows
Chapter 22. Swing—Part 1
Chapter 23. Swing—Part 2
Chapter 24. Networking
Chapter 25. Java Beans
Chapter 26. Java Servlets
Chapter 27. Java Database Connectivity

Machine Learning



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This book on *Machine Learning* is designed as a textbook for undergraduate and postgraduate engineering students. It provides comprehensive coverage of the fundamentals of machine learning, striking a perfect balance between theoretical concepts and mathematical exposition. The book includes numerous numerical examples, review questions, and Python programs to reinforce learning. It is also a valuable resource for engineering professionals and IT employees seeking to understand the basics of machine learning.

About the Authors:

S. Sridhar is a Professor in the Department of Information Science and Technology at the College of Engineering, Guindy Campus, Anna University, Chennai.

M. Vijayalakshmi is an Associate Professor in the Department of Information Science and Technology at the College of Engineering, Guindy Campus, Anna University, Chennai.

Features:

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- Pandas, Scikit-learn, Matplotlib, SciPy, and Keras
- Includes a 'Laboratory Manual' with examples illustrated through Python and its packages
- Comes with 'Useful Pedagogical Features' such as Crossword and Word Search

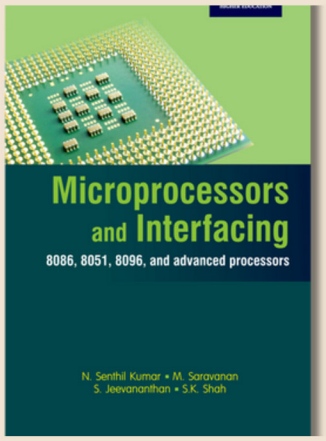
Table of Contents:

Chapter 1. Introduction to Machine Learning
Chapter 2. Understanding Data
Chapter 3. Basics of Learning Theory
Chapter 4. Similarity-based Learning
Chapter 5. Regression Analysis
Chapter 6. Decision Tree Learning
Chapter 7. Rule–based Learning
Chapter 8. Bayesian Learning
Chapter 9. Probabilistic Graphical Models
Chapter 10. Artificial Neural Networks
Chapter 11. Support Vector Machines
Chapter 12. Ensemble Learning
Chapter 13. Clustering Algorithms
Chapter 14. Reinforcement Learning
Chapter 15. Genetic Algorithms
Chapter 16. Deep Learning

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About the Authors:

N. Senthil Kumar is a Professor in the Department of Electrical and Electronics Engineering at Mepco Schlenk Engineering College, Sivakasi, Tamil Nadu.

M. Saravanan is a Professor in the Department of Electrical and Electronics Engineering at Thiagarajar College of Engineering, Madurai, Tamil Nadu.

S. Jeevananthan is a Professor in the Department of Electrical and Electronics Engineering at Pondicherry Engineering College, Puducherry.

S. K. Shah is a Professor in the Department of Electrical Engineering at The Maharaja Sayajirao University of Baroda, Vadodara.

Features:

- Provides assembly language program codes with corresponding comments
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- DC motor speed monitoring, and control as an appendix
- Provides numerous programming examples, think and answer type questions, design-based
- exercises, and programming exercises
- Includes more than 200 multiple choice questions on 8085, 8086, and 8051 processors

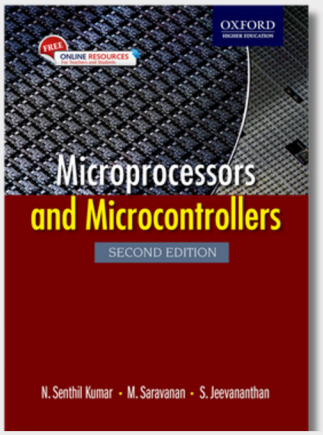
Table of Contents:

1. Microprocessors — Evolution and Introduction to 8085 | 2. Methods of Data Transfer and Serial Transfer Protocols | PART I: Intel 8086 — 16-bit Microprocessors | 3. Intel 8086 Microprocessor Architecture, Features, and Signals | 4. Addressing Modes, Instruction Set, and Programming of 8086 | 5. 8086 Interrupts | 6. Memory and I/O Interfacing | 7. Features and Interfacing of Programmable Devices for 8086-based Systems | 8. Multiprocessor Configuration | 9. 8086-based Systems | PART II: Intel 8051 — 8-bit Microcontrollers | 10. Introduction to 8051 Microcontrollers | 11. 8051 Instruction Set and Programming | 12. Hardware Features of 8051 | 13. 8051 Interface Examples | PART III: Intel 8096 — 16-bit Microcontrollers | 14. Overview of Intel 8096 Microcontrollers | 15. 8096 Instruction Set and Programming | 16. Hardware Features of 8096 | PART IV: Advanced Trends | 17. Microprocessor System Developments and Recent Trends | 18. Advanced Microprocessors and Microcontrollers | 19. Embedded Systems | 20. Hybrid Programming Techniques Using ASM and C/C++

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About the Authors:

N. Senthil Kumar is a Professor in the Department of Electrical and Electronics Engineering at Mepco Schlenk Engineering College, Sivakasi, Tamil Nadu.

M. Saravanan is a Professor in the Department of Electrical and Electronics Engineering at Thiagarajar College of Engineering, Madurai, Tamil Nadu.

S. Jeevananthan is a Professor in the Department of Electrical and Electronics Engineering at Pondicherry Engineering College, Puducherry.

Features:

- Case studies: Further to the already covered real-life applications such as traffic light control, washing machine control and elevator control, this edition includes new case studies on microprocessor-based temperature control system and thyristor triggering control.
- Additional topics: Additional timing diagrams for 8085, debugging of assembly language programs, ARM microcontrollers, and additional programming examples for 8051 in C language.
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Table of Contents:

PART I: Intel 8085 — Architecture and Programming

PART II: Hardware Interfacing with Intel 8085

PART III: Intel 8051 Microcontrollers

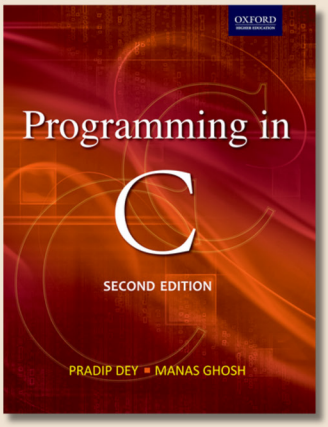
PART IV: Intel 8086 — 16-bit Microprocessors

PART V: Intel 8096 — 16-bit Microcontrollers

PART VI: Advanced Trends

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The second edition of *Programming in C* is designed to serve as an introductory text for students of engineering, computer applications, and computer science. It provides a thorough understanding of the fundamentals of C and its applications. Beginning with the basic concepts of programming, the book gives an exhaustive coverage of arrays, strings, functions, pointers, and data structures. Separate chapters on linked lists and stacks, queues, and trees, with their implementation in C, have been provided to simplify the learning of complex concepts. Students will find this book an excellent companion for selfstudy owing to its easy-to-understand approach with plenty of programs complete with source codes, sample outputs, and test cases.

About the Authors:

Pradip Dey, currently a faculty member at the RCC Institute of Information Technology, Kolkata, has over 15 years of teaching experience and about 24 years of industry experience.

Manas Ghosh, also a faculty member at the RCC Institute of Information Technology, Kolkata, has over 13 years experience of teaching and development in information technology.

Features:

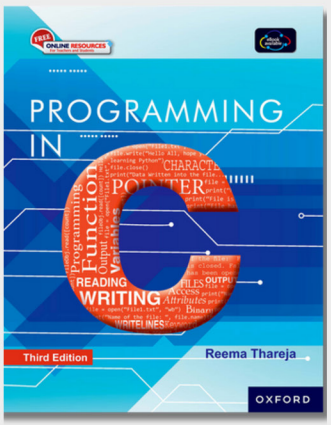
- Illustrates widely used library functions with program codes and test cases
- Highlights the common mistakes to indicate the possible problem areas
- Highlights C99 features wherever relevant in the text
- Provides numerous review questions and programming exercises at the end of each chapter

Table of Contents:

Chapter 1. Introduction to Programming, Algorithms and Flowcharts
Chapter 2. Basics of C
Chapter 3. Input and Output
Chapter 4. Control Statements
Chapter 5. Arrays and Strings
Chapter 6. Functions
Chapter 7. Pointers in C
Chapter 8. User-defined Data Types and Variables
Chapter 9. Files in C
Chapter 10. Linked Lists
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This third edition of *Programming in C* is designed for undergraduate students of engineering, computer applications, and computer science. It provides a comprehensive coverage of the fundamental concepts of C programming in solving real-world problems. The book is thoughtfully augmented with illustrative examples, insightful figures, detailed algorithms, invaluable programming insights, and skill-refining exercises. In essence, it emerges as the ultimate student companion, equipping them to attain mastery in crafting efficient and eloquent C programs.

About the Author:

Reema Thareja is presently Assistant Professor, Department of Computer Science, Shyama Prasad Mukherji College for Women, University of Delhi.

Features:

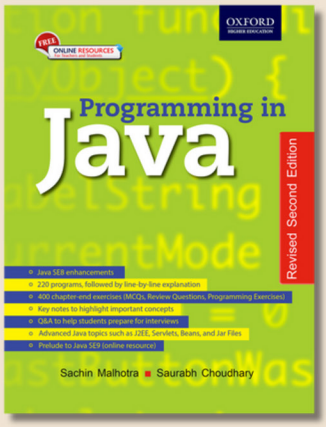
- Chapter 1 completely rewritten to discuss the various strategies used for problem solving
- An annexure on code optimization techniques and case studies
- Practical implementation of the algorithms using tested C programs
- Employs a very lucid style of presentation which makes the concepts easy to understand
- Provides more than 200 programming examples with outputs to illustrate the concepts
- Includes case studies after selected chapters to help readers develop a practical understanding of the concepts learnt
- Provides numerous chapter-end exercises to test the understanding of the theory

Table of Contents:

Chapter 1. Problem Solving and Programming
Chapter 2. Introduction to C
Chapter 3. Decision Control and Looping Statements
Chapter 4. Functions
Chapter 5. Arrays
Chapter 6. Strings
Chapter 7. Pointers
Chapter 8. Structure, Union, and Enumerated Data Types
Chapter 9. Files
Chapter 10. Preprocessor Directives
Chapter 11. Linked Lists
Chapter 12. Stacks and Queues
Chapter 13. Trees
Chapter 14. Graphs

Programming in Java
(Revised 2nd Edition)

eBook available



9780199484140
Paperback
696 pp
2018
₹975/-



Programming in Java, revised 2nd edition, is primarily designed for students of computer science, information technology, and computer applications. This edition has been updated to provide broader topical coverage and to incorporate enhancements introduced in Java 8. Beginning with the fundamentals of object-oriented programming concepts, the book gradually progresses to cover all essential aspects of Java. Topics include interfaces, packages, enumerations, exception handling, assertions, multithreading, generics, applets, event handling, AWT, and Swing. Additionally, the final chapter offers an introduction to advanced topics such as JDBC, servlets, JSP, JavaBeans, and EJB.

About the Authors:

Sachin Malhotra is currently Associate Professor in the IT department of IMS Ghaziabad.
Saurabh Choudhary is currently a practising IT consultant and corporate trainer.

Features:

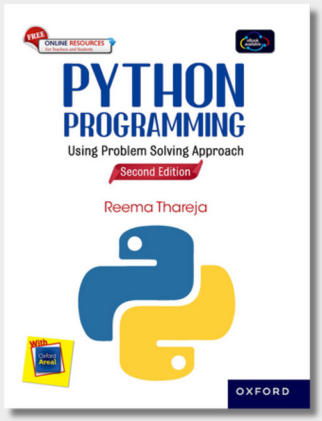
- Provides a quick recap of object-oriented programming concepts before getting started with Java
- Includes plenty of user-friendly programs with line-by-line explanations and comments to encourage self-study
- Includes key notes wherever required
- Contains a variety of chapter-end exercises to reinforce the concepts learnt

Table of Contents:

Chapter 1. Introduction to OOP
Chapter 2. Getting Started With Java
Chapter 3. Java Programming Constructs
Chapter 4. Classes and Objects
Chapter 5. Inheritance
Chapter 6. Interfaces, Packages, and Enumeration
Chapter 7. Exception, Assertions, and Logging
Chapter 8. Multithreading in Java
Chapter 9. Input/Output, Serialization and Cloning
Chapter 10. Generics, java.util, and Other API
Chapter 11. Network Programming
Chapter 12. Applets
Chapter 13. Event Handling in Java
Chapter 14. Abstract Window Toolkit
Chapter 15. Swing
Chapter 16. Introduction to Advanced Java

Python Programming: Using Problem Solving Approach
(Second Edition)

eBook available



9789354973765
Paperback
512 pp
2023
₹675/-



The second edition of *Python Programming* using Problem Solving Approach is designed for undergraduate students of Computer Science Engineering, Information Technology, and Computer Applications. It aims to prepare students to apply the concepts of Python Programming in solving real-world problems. With a comprehensive introduction to computers, problem solving approaches, programming languages, and object-oriented programming, the book goes on to explore Python Programming in detail. Separate chapters covering important constructs of Python language such as control statements, functions, strings, files, data structures, classes and objects, inheritance, operator overloading, and exceptions have been added to make learning simpler for readers. Plenty of useful chapter-end exercises have also been included on programming and debugging.

About the Author:

Reema Thareja is presently Assistant Professor, Department of Computer Science, Shyama Prasad Mukherji College for Women, University of Delhi.

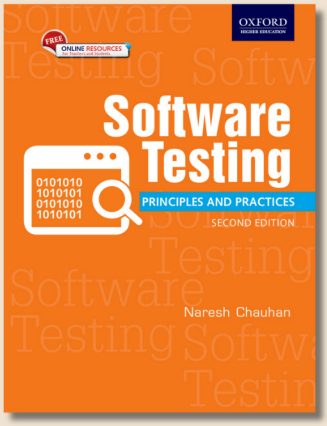
Features:

- New appendices on Python IDEs, Sorting, Network Programming, MongoDB under NoSQL, Visual Programming through Scratch, Event Driven Programming
- Separate appendices on NumPy and Pandas, and Raptor Tool
- Comes with chapter-wise videos by author discussing important topics
- Additional Programming examples for learning and practice
- Case studies on creating calculator, calendar, hash files, compressing strings and files, tower of Hanoi, image processing, etc.

Table of Contents:

Chapter 1. Introduction to Computers and Problem Solving Strategies
Chapter 2. Introduction to Object-Oriented Programming (OOP)
Chapter 3. Basics of Python Programming
Chapter 4. Decision Control Statements
Chapter 5. Functions and Modulesards
Chapter 6. Python Strings Revisited
Chapter 7. File Handlingion of an Image
Chapter 8. Data Structures
Chapter 9. Classes and Objects
Chapter 10. Inheritance
Chapter 11. Operator Overloading
Chapter 12. Error and Exception Handling

Software Testing
(Second Edition)



9780199465873
Paperback
560 pp
2016
₹925/-



This second edition of *Software Testing* serves as a textbook for students of computer science, information technology, and computer applications. The book focuses on software testing, not only as a phase of software development life cycle (SDLC), but also as a complete process to fulfil the demands of quality software. Beginning with an introduction to software testing terminology and methodology, and verification and validation activities, the book provides an exhaustive coverage of testing techniques including dynamic and static testing, various validation activities, and regression testing. The book then delves into the various stages of the testing process life cycle such as test process management, testing metrics, efficient test suite management, debugging, and quality management.

About the Author:

Naresh Chauhan is currently Professor, Department of Computer Engineering, YMCA University of Science & Technology, Faridabad. A PhD in Internet and Web Technology, he has about 19 years of experience, teaching both undergraduate and postgraduate students.

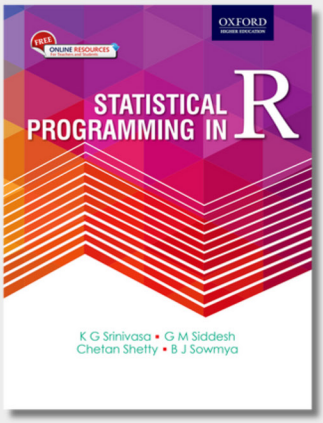
Features:

- Advocates the notion of effective and systematic software testing in place of exhaustive testing
- Provides a comprehensive coverage of software testing techniques through a large number of test cases and diagrams
- Covers testing techniques for two specialized environments: object-oriented software and web-based software
- Includes a large number of examples, multiple-choice questions, and unsolved problems for practice

Table of Contents:

PART 1: Testing Methodology
PART 2: Testing Techniques
PART 3: Managing the Test Process
PART 4: Test Automation
PART 5: Testing for Specialized Environments
PART 6: Tracking the Bug
PART 7: Quality Management

Statistical Programming in R



9780199480357
Paperback
264 pp
2017
₹715/-



Statistical Programming in R is a textbook designed to explain the theory, syntax, and scripting of this powerful language that helps build robust statistical models, analyse huge data with ease, and visualize and draw meaningful inferences. This book is designed for the first course on the subject taught for the students of undergraduate engineering in computer science and computer applications. It would also be useful for people who are beginners in data science and statistical analysis and those who want to begin with a hands-on approach to using R.

About the Authors:

K G Srinivasa is Associate Professor and Head, Dept of Information Technology, CBP Govt Engineering College, Jaffarpur, New Delhi.
G M Siddesh is Associate Professor, Dept of Information Science and Engineering, Ramaiah Institute of Technology, Bengaluru
Chetan Shetty is Assistant Professor, Dept of Computer Science and Engineering, Ramaiah Institute of Technology, Bengaluru.
B J Sowmya is Assistant Professor, Dept of Computer Science and Engineering, Ramaiah Institute of Technology, Bengaluru.

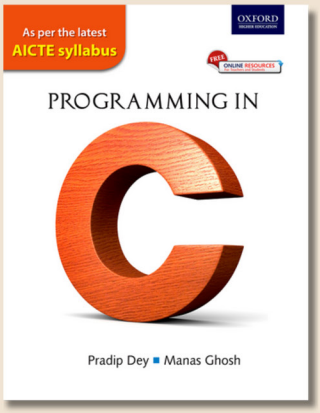
Features:

- Addresses topics such as bar charts and pie charts to perform real data analysis ranging from reading data stored in various file formats to plotting the results of the analysis
- Illustrates examples such as binary search tree implementation and accessing keyboard and monitor for general input and output
- Explains the various constructs in R and the nuances among them
- Explains how R can interface with CSV, Excel, XML, and JSON files
- Provides lucid examples covering ANOVA, advanced statistics, splines, and also covers data visualization through R

Table of Contents:

Chapter 1. Basics of R
Chapter 2. Factors and Data Frames
Chapter 3. Lists
Chapter 4. Conditionals and Control Flow
Chapter 5. Iterative Programming in R
Chapter 6. Functions in R
Chapter 7. Apply Family in R
Chapter 8. Charts and Graphs
Chapter 9. Data Interfaces
Chapter 10. Statistical Applications

Programming in C: As per the latest AICTE syllabus



9780199491476
Paperback
496 pp
2018
₹950/-

ONLINE RESOURCES india.oup.com/orcs/9780199491476
The following resources are available to support the faculty and students using this text:
For Faculty
- Chapter PPTs

For Students
- Supplementary Reading

Programming in C is designed to serve as an introductory text for students of engineering, computer applications, and computer science. It provides a thorough understanding of the fundamentals of C and its applications. Beginning with an overview of the basic concepts of computers, the book provides an exhaustive coverage of C programming constructs. It then focuses on arrays, strings, functions, pointers, user-defined data types, and files. In addition, the book also provides a chapter on linked lists—a popular data structure—and different operations that can be performed on such lists. Students will find this book an excellent companion for self-study owing to its easy-to-understand approach with plenty of programs complete with source codes, sample outputs, and test cases.

About the Author:

Pradip Dey, Ex-Faculty and Dean – Student Affairs and Support Systems, RCC Institute of Information Technology, Kolkata, has over 15 years of teaching experience and about 29 years of industry experience.
Manas Ghosh, Assistant Professor at RCC Institute of Information Technology, Kolkata, has over 18 years of experience of teaching and development in information technology.

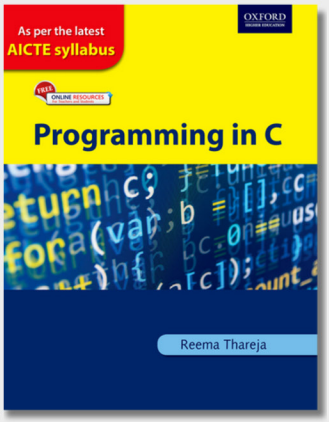
Features:

- Completely covers the latest AICTE model syllabus
- Illustrates widely used library functions with program codes and test cases
- Highlights the common mistakes to indicate the possible problem areas
- Includes an appendix illustrating algorithms and flowcharts on additional problems followed by working programs based on these algorithms

Table of Contents:

Chapter 1. Computer Fundamentals
Chapter 2. Introduction to Programming, Algorithms and Flowcharts
Chapter 3. Basics of C
Chapter 4. Input and Output
Chapter 5. Control Statements
Chapter 6. Arrays and Strings
Chapter 7. Functions
Chapter 8. Pointers in C
Chapter 9. User-Defined Data Types and Variables
Chapter 10. Files in C
Chapter 11. Linked Lists

Programming in C: As per the latest AICTE syllabus



9780199492282
Paperback
392 pp
2018
₹699/-

ONLINE RESOURCES india.oup.com/orcs/ 9780199492282
The following resources are available to support the faculty and students using this text:
For Faculty
- Solutions Manual
- PowerPoint Slides

For Students
- Multiple Choice Questions
- Supplementary Reading: Data Structures

Programming in C is designed to serve as a textbook for the undergraduate students of engineering, computer applications, and computer science. It provides a comprehensive coverage of the fundamental concepts of C programming. Beginning with the basics of computers, the book provides an in-depth analysis of various constructs of C. The key topics include iterative and decision-control statements, functions, recursion, arrays, strings, pointers, structures and unions, and file management. It deals separately with the fundamental concepts of linked lists—the preferred data structure for dynamic allocation of memory. The book also includes a chapter on different searching and sorting algorithms and analysis of time and space complexity of algorithms.

About the Authors:

Reema Thareja is Assistant Professor at Department of Computer Science, Shyama Prasad Mukherji College for Women, University of Delhi.

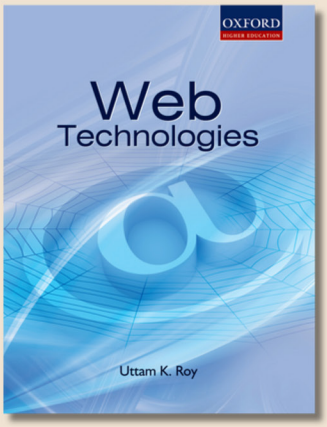
Features:

- Completely covers the latest AICTE syllabus
- Employs a very lucid style of presentation which makes the concepts easy to understand
- Provides more than 240 programming examples with outputs to illustrate the concepts
- Includes highly detailed pedagogy entailing examples, figures, algorithms, and programming tips
- Provides numerous chapter-end exercises to test the understanding of the theory

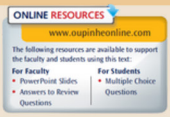
Table of Contents:

Chapter 1. Introduction to Programming
Chapter 2. Introduction to C
Chapter 3. Decision Control and Looping Statements
Chapter 4. Functions
Chapter 5. Recursion
Chapter 6. Arrays
Chapter 7. Strings
Chapter 8. Algorithms
Chapter 9. Pointers
Chapter 10. Structure, Union, and Enumerated Data Types
Chapter 11. Files
Chapter 12. Linked Lists

Web Technologies



9780198066224
Paperback
776 pp
2010
₹1,099/-



Web Technologies is a textbook specially designed for undergraduate and postgraduate students of Computer Science, Information Technology, and Computer Applications (BE/BTech/BCA/MCA). The book provides a comprehensive coverage of the complete range of topics taught in this course. The text is supported by numerous illustrations, examples, program codes, and screenshots. With its lucid presentation and inclusion of numerous real-world examples and codes, the book will be equally useful for web professionals.

About the Author:

Uttam K. Roy is working as a faculty in the Department of Information Technology, Jadavpur University, Kolkata.

Features:

- Provides thorough understanding of the working of each technology through extensive examples along with the program codes and screenshots
- Demonstrates where and how to use web technologies effectively
- Provides relevant software installation and configuration information wherever necessary
- Covers advanced concepts such asMVCand Struts and emerging topics such as Xquery

Table of Contents:

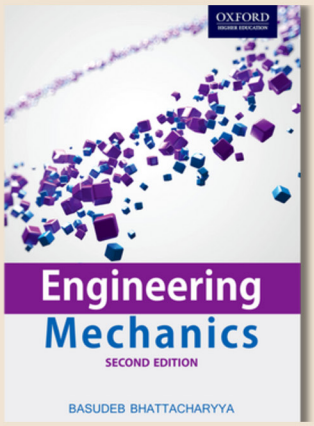
Part I—Web Fundamentals
Part II—XML Technologies
Part III—Client-side Programming
Part IV—Server-side Programming

Dive deep into core and elective subjects supported by practical case studies and real-world examples.



Engineering Mechanics
(Second Edition)

eBook available



9780198096320

Paperback

820 pp

2014

₹825/-

ONLINE RESOURCES www.oupinheonline.com
The following resources are available to support the faculty and students using this text:
For Faculty
• Solutions Manual
For Students
• Additional solved problems
• Model Question Papers

The second edition of *Engineering Mechanics* is specially designed as a textbook for undergraduate students of engineering. It provides a detailed and holistic treatment of the basic theories and principles of both statics and dynamics. Starting from the fundamental concepts of force and equilibrium along with free body diagrams, this book comprehensively covers the various analytical aspects of rigid body mechanics, including a suitable discourse on simple lifting machines. Within each chapter, the simpler topics and problems precede those that are more complex and advanced. Each chapter starts with the key concepts and gradually builds up on the advanced topics using detailed and easy-to-understand illustrations.

About the Author:

Basudeb Bhattacharyya is currently Associate Professor, Department of Aerospace Engineering and Applied Mechanics, Indian Institute of Engineering Science and Technology, Shibpur.

Features:

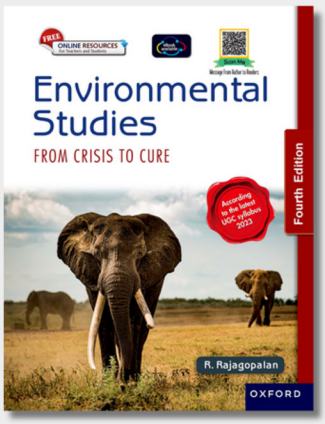
- Basic concepts of statics and dynamics are presented using the vector approach.
- Dynamics of particles and dynamics of rigid bodies are covered separately.
- Large number of solved examples and numerous illustrations are provided to reinforce the understanding of theoretical concepts.

Table of Contents:

Chapter 1. Introduction to Statics
Chapter 2. Equilibrium of Forces
Chapter 3. Truss, Frames, and Cables
Chapter 4. Friction
Chapter 5. Properties of Lines, Surfaces, and Physical Bodies
Chapter 6. Virtual Work
Chapter 7. Simple Lifting Machines
Chapter 8. Kinematics of Particles
Chapter 9. Kinematics of Rigid Bodies
Chapter 10. Kinetics of Particles and Rigid Bodies
Chapter 11. Principle of Work, Power, and Energy
Chapter 12. Principle of Impulse and Momentum
Chapter 13. Mechanical Vibration

Environmental Studies: From Crisis to Cure
(Fourth Edition)

eBook available



9789354978944

Paperback

264 pp

2023

₹575/-

ONLINE RESOURCES https://india.oup.com/orcs/9789354978944
The following resources are available to support the faculty and students using this text:
For Faculty
• PowerPoint Slides
For Students
• References including books, websites, and documentaries
• Additional stories and current developments

The latest edition of *Environmental Studies* covers the 2023 'UGC Guidelines and Curriculum Framework for Environment Education at the Undergraduate Level' designed under the New Education Policy (2020). The book is specially designed for undergraduates of any discipline and assumes no background in mathematics or science beyond the level of the tenth standard. This book will also be useful for those taking the UPSC civil services examinations. It covers the ecology/environment topics in the syllabi for the preliminary and main examinations.

About the Author:

R. Rajagopalan holds a B.E. (Honours) degree in Mechanical Engineering from the University of Madras and M.Tech. and Ph.D. degrees in Industrial Management from the Indian Institute of Technology (IIT) at Kanpur, India.

Features:

Other than learning the concepts, understanding the critical issues, and appreciating the solutions, you will also:

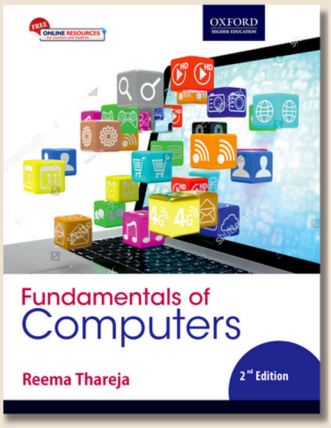
- read many true environment-related stories of successes, failures, interconnections, and inspirational individuals
- reflect on meaningful quotations, discuss deeper issues, watch films and documentaries, and read related novels
- discover how YOU can make a positive difference to the state of the environment by doing projects, joining groups, and taking action at a personal level

Table of Contents:

Chapter 1. Basics of R
Chapter 2. Factors and Data Frames
Chapter 3. Lists
Chapter 4. Conditionals and Control Flow
Chapter 5. Iterative Programming in R
Chapter 6. Functions in R
Chapter 7. Apply Family in R
Chapter 8. Charts and Graphs
Chapter 9. Data Interfaces
Chapter 10. Statistical Applications

Fundamentals of Computers
(Second Edition)

eBook available



Fundamentals of Computers has been specically designed for those who want to learn the basic concepts of computers. It is an ideal text for self-learning concepts such as organization and architecture of a computer system, input and output devices, primary and secondary memory, as well as advanced topics including operating systems, computer networks, and databases. The book also provides step-by-step procedures to learn different applications such as MS Word, MS Excel, and MS PowerPoint. The book will be useful for students enrolled in courses such as BSc (Computer Science), BA/BCom (Computer Applications), BSc (Hospitality & Hotel Administration), BCA, and MCA, as well as for those students who are pursuing diploma courses.

About the Author:

Reema Thareja is Assistant Professor at Department of Computer Science, Shyama Prasad Mukherji College for Women, University of Delhi.

Features:

- Provides a comprehensive coverage of computer fundamentals, focusing on both the hardware as well as software components ·
- Offers a detailed coverage of MS Office 2013 applications
- Includes numerous well-labelled diagrams and screenshots throughout the text
- Intersperses text with notes that highlight important concepts

Table of Contents:

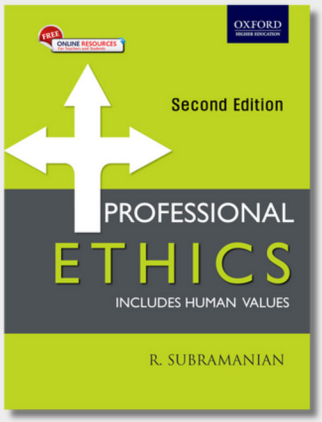
Chapter 1. Introduction to Computers
Chapter 2. Input and Output Devices
Chapter 3. Computer Memory and Processors
Chapter 4. Number Systems and Computer Codes
Chapter 5. Boolean Algebra and Logic Gates
Chapter 6. Computer Software
Chapter 7. Problem Solving Using Computers
Chapter 8. Operating Systems
Chapter 9. Data Organization and Database Management System
Chapter 10. Computer Networks
Chapter 11. Internet and Its Applications
Chapter 12. Microsoft Word 2013
Chapter 13. Microsoft Excel 2013
Chapter 14. Microsoft PowerPoint 2013

9780199499274
Paperback
296 pp
2019
₹520/-



Professional Ethics
(Second Edition)

eBook available



The second edition of Professional Ethics is a comprehensive textbook designed for budding engineers and managers. The book has been written in a simple manner with plenty of examples and case studies that will enable the readers to effectively resolve the ethical issues they will face in their professional lives. Starting with basic terminologies and ethical views of many thinkers from India and abroad, the book discusses the basic tenets of professionals and professionalism, ethics in engineering, engineers' responsibility for safety, and responsibilities and rights of individuals and professionals along with impact of social media, personal ethics, and value sciences. Global ethical issues, corporate social responsibility, media, and research are some of the other topics covered in the book. Intellectual property rights, ethics audit, and development and detailing of ethical codes from professional engineering bodies are also included. In addition to these, human values and attitudes, which forms the basis of ethical decisions and actions, is also included.

About the Author:

R. Subramanian retired as professor and head of the civil engineering department at the National Institute of Technical Teachers' Training and Research (NITTTR), Chandigarh.

Features:

- New sections on impact of social media, nature of values, personal ethics, value sciences, and so on
- Appendix 1 which provides a set of practical exercises at the end of the book for instructors to conduct in the class
- Updated content throughout the text to bridge minor gap areas
- Multiple choice questions and more review exercise questions at the end of every chapter

Table of Contents:

Chapter 1. Basic Concepts
Chapter 2. Profession and Professionalism
Chapter 3. Ethical Theories
Chapter 4. Ethics in Engineering Profession
Chapter 5. Engineers' Responsibility for Safety
Chapter 6. Responsibilities and Rights of Professionals
Chapter 7. Global Issues
Chapter 8. Ethical Codes
Chapter 9. Ethics Audit
Chapter 10. Human Values and Attitudes
Chapter 11. Ethical Living

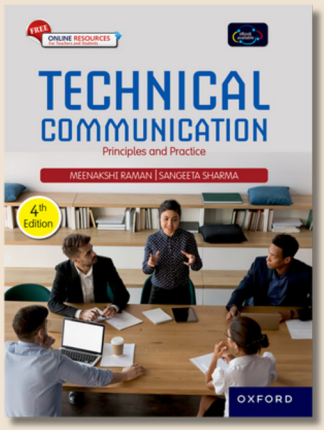
9780199475070
Paperback
472 pp
2017
₹770/-



Technical Communication: Principles and Practice

(Fourth Edition)

eBook available



9789354972256

Paperback

504 pp

2022

₹775/-



Technical Communication, Fourth Edition is an ideal textbook intended to provide effective communication skills to the undergraduate students of engineering. To build skills of job readiness in readers, concepts have been developed with the support of numerous examples, samples, and practice exercises. All the four language skills (LSRW) have been given adequate coverage to make understanding of communication more effective and appropriate to the context

About the Authors:

Meenakshi Raman is Former Professor and Head, Department of Humanities and Social Sciences, at BITS Pilani, Goa campus.
Sangeeta Sharma is presently Professor at BITS, Pilani. She is currently teaching courses on communication and advertising, and has published several articles on communication.

Features:

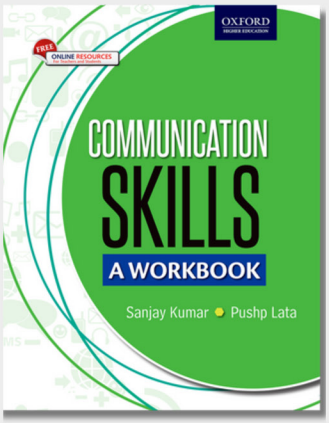
- Contains 4 modules on enhancing professional skills of readers: Communication, Time Management, Negotiation Skills, and Online Meetings
- Includes new sections on paralinguistic features, technology in communication, & ethics and etiquettes in communication
- Provides detailed discussions on mother tongue influence, negotiation skills, and journal writing
- Comprises chapter-wise author audio podcasts featuring core concepts of the chapters as well as tips for better etiquettes, presentation, tone, and pronunciation
- Contains listening and speaking practice exercises on telephonic conversation, phonetics, and more

Table of Contents:

Part I: Introduction to Technical Communication
Part II: Listening and Speaking
Part III: Reading and Writing
Part IV: Review of Grammar

Communication Skills: A Workbook

eBook available



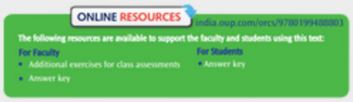
9780199488803

Paperback

264 pp

2018

₹595/-



Communication Skills: A Workbook is a practice book designed to help users to develop the four fundamental language skills—Listening, Speaking, Reading, and Writing (LSRW). Divided into four parts, Unit I focuses on non-verbal communication, grammar and usage, vocabulary enhancement, and listening skills. The book goes on to cover reading comprehension in Unit II. Unit III on writing skills concentrates on emails, blogs, business letters, and job application letters among others. Unit IV focuses on speaking skills that will help in role play and dialogues, professional presentations, speeches, debates, group discussions, and job interviews. Drafted for students at the graduation level, the text would prove equally useful for students pursuing their postgraduation or professionals aspiring to enhance their proficiency in English

About the Authors:

Sanjay Kumar is a Consultant in the field of Communication and Soft Skills.
Pushp Lata is currently Associate Professor of English at the Department of Humanities and Social Sciences, BITS, Pilani.

Features:

- Innovatively-designed text and examples to help students excel in grammar, vocabulary, listening, reading, writing, and speaking
- Numerous practice exercises for self-assessment in all chapters
- Enhances employability by providing practical insights to help readers face interviews and group discussions, participate in debates, or appear for competitive examinations

Table of Contents:

Unit 1: Essentials of Language Learning
Unit 2: Reading Skills
Unit 3: Writing Skills
Unit 4: Speaking Skills

PlaceMentor: Tests of Aptitude

eBook available



PlaceMentor: Tests of Aptitude for Placement Readiness is designed to be an indispensable resource material for students to develop the key skills of employability, namely quantitative aptitude, logical reasoning and verbal ability. The book also has a separate module on soft skills for employability, a crucial skill for successful placement. The book, by addressing the key components of campus placement tests, offers a complete package for students embarking upon their career journey from academics. Divided into 53 chapters addressing the general aptitude skills required for cracking recruitment tests, the book is loaded with plenty of examples, tips and alternative methods for quicker solutions. It also includes graded practice exercises with hints and complete solutions under each topic. The book will also be a useful reference for students preparing for various competitive examinations, such as IBPS and SBI.

About the Author:

Archana J is the co-founder of SMART Training Resources India Pvt. Ltd, Chennai.

Features:

- Addresses all key skills required for gaining success in campus recruitment tests
- Provides discussion on soft skills for employability covering topics such as body language, handling interviews, GDs, etc.
- Presents a brief overview of each topic along with examples, and plenty of exercise questions for practice with complete solutions at the end of each chapter

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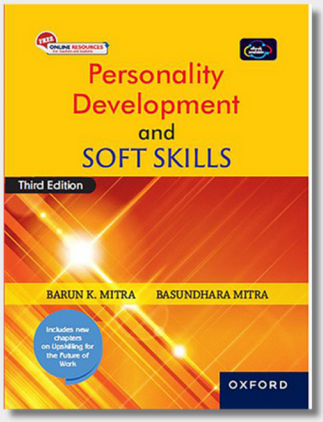
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Basundhara Mitra is a creative writing cnsellor in India and USA, author, and poet

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