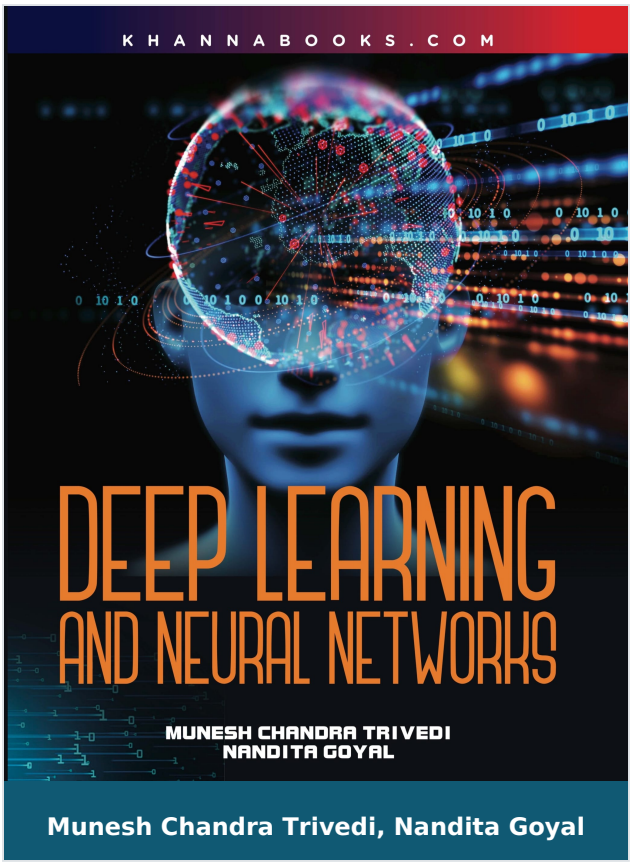


# Deep Learning and Neural Networks

| | |
|---|---|
| **Author :** | Munesh Chandra Trivedi, Nandita Goyal |
| **ISBN 13 :** | 978-93-55383-98-3 |
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## Product Description

The focus on the theory, algorithms, implementations and practical applications of deep learning and neural networks makes An Insight into Deep Learning and Neural Networks useful for students of Computer Science and mathematics. The book introduces neural networks starting with a quick tour of the very first ANN architectures, then covering topics such as training nets, recurrent neural networks, and reinforcement learning. Where possible, an application -centric view is highlighted to provide an understanding of the practical uses of each class of techniques.

Students of Computer Science and other related natural sciences will find it easy -to- read textbook, excellent for self -study, a high school level Knowledge of mathematics being the only pre-requisite to understand the material.

Salient Features of the Book:

1. The language is simple and easily understandable.
2. Includes hands-on approach for learning the subject.
3. Simple and intuitive discussions of neural networks and deep learning.
4. Provides mathematical details without losing the reader in complexity.
5. Include exercises and examples.
6. Discusses both traditional neural networks and recent deep learning models.
7. Covers both classical and modern models in deep learning.
8. An application-centric view is highlighted to provide an understanding of the practical uses of each class of techniques.
9. Greater focus is placed on modern deep learning ideas such as attention mechanisms, transformers, and pretrained language models.

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- Information Flow in a Neural Network, Understanding Basic Structure and ANN.
- Training a Neural Network, How to Determine Hidden Layers, Recurrent Neural Network.
- Convolution Neural Network, Image Classification and CNN.
- RNN and LSTMs, Applications of RNNs in Real World.
- Creating and Deploying Networks using Tensor Flow and Keras.


## Author

**Munesh Chandra Trivedi**

Dr. Munesh Chandra Trivedi has more than 20 years of experience in the field of computer science & Engineering and has worked in Prestigious Institutions. He has more than 10 years' experience in various administrative responsibilities e.g., Dean (academics), Head of Department, TEQIP-111 Coordinator, PG coordinator, EDC cell Coordinator. Currently working Tripura, India, and Associate Professor and HoD (IT), Rajkiya Engineering College, Azamgarh, up (state Govt Institution of UP) with the additional responsibility of Dean Academics of the institute & Associate Dean UG Programs, Dr. APJ Abdul Kalam Technical University, Lucknow (State Technical University). He was also the Director (In-charge) at Rajkiya Engineering College, Azamgarh. He had successfully filed 81 patents (65 National and 16 International Patents (Germany, South Africa, and Australia)), out of which 40 patents were granted. He has published 12 textbooks and 168 research papers in different International Journals and proceedings of repute. He has also edited 38 books for springer Nature. He successfully supervised 14 PhD students and received numerous awards, including the Young scientist Visiting Fellowship, Albert Einstein Research scientist Award, Best senior Faculty Award, Outstanding Scientist, Dronacharya Award, Author of the Year, and vigyan Ratan award from different national, as well as international forums. He has organized more than 32

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international conferences technically sponsored by IEEE, ACM, AND Springer. Dr.

**Nandita Goyal**

Dr. Nandita Goyal has more than 17 years' experience in Teaching and Research. Her areas of interest are Cloud Computing, Deep learning and Neural Networks. She has published many research papers in different reputed International Journals and Conferences.

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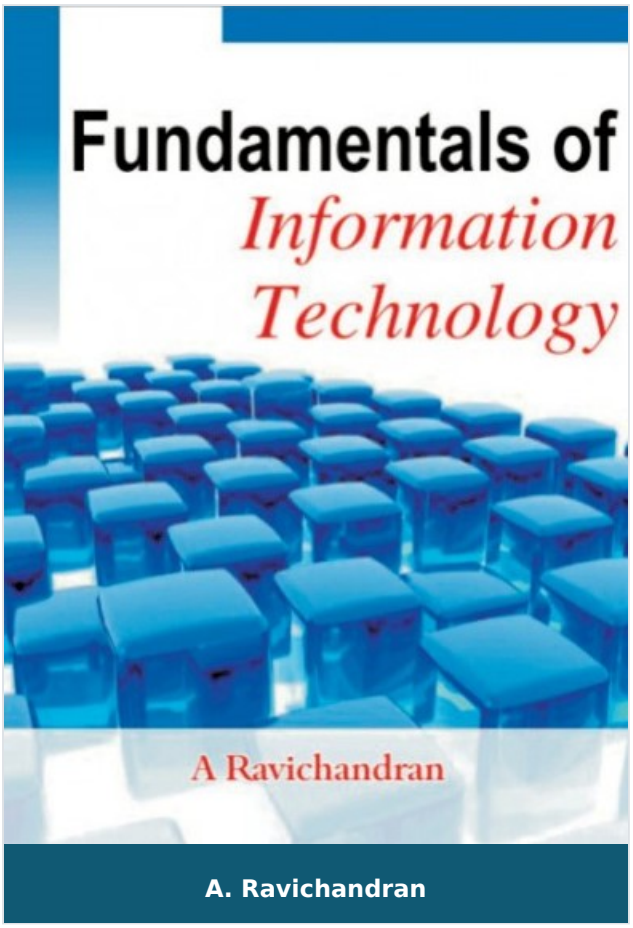


A. Ravichandran

# Fundamentals of Information Technology

| | |
|---|---|
| **Author :** | A. Ravichandran |
| **ISBN 13 :** | 978-93-80016-34-4 |
| **ISBN 10 :** | 9380016344 |
| **E-ISBN 13 :** | 978-93-80016-34-4 |
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## Product Description

This book Covers all the important aspects of computers, their growth, usage and abilities. Each topic has has fully covered to explain their developments and future usage. This book would serve the base for the learning process for all the students of computers and information technology. Starting with students of schools, to colleges, to the universities, or whosoever who wants to have more information about the subject. 20th century has seen the development of information technology to the fullest. This field is changing at such a fast speed that it becomes impossible to keep track of the developments taking place throughout the world. This book in one of the such book which keeps you informed about the development which has taken place and are now on the verge of capturing the market, specially, mobile computing, Geo Information system, knowledge database system, etc.

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## Table Of Contents


- Introduction to Computers
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- Number System
- Central Processing Unit
- Input, Output and Storage Devices
- Introduction to Computer Software
- Introduction to Software Development
- Programming Languages
- Operating Systems
- General Software
- Microsoft Windows XP
- Introduction to Microsoft Office
- Microsoft Word
- Microsoft Excel
- Microsoft PowerPoint
- Microsoft Access
- Introduction to Database Management Systems
- Database Systems and Architecture
- DBMS and SQL
- Introduction to Telecommunications
- Introduction to Networking
- Introduction to Communications
- Internet and World Wide Web


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- Cryptography
- Computer Virus, Worms and Bombs
- Multimedia and Applications
- New Technologies
- Use of Computers in various Industries
- Introduction to Tally 9.0

## Author

**A. Ravichandran**

A. Ravichandran He has obtained M.Tech degree in Computer Science & Engineering from IIT. Delhi and Ph.D degree in Computer Science and Engineering from IIT Kanpur. He has been in teaching field since 1983 and now currently guiding: research work on Image processing, Computer vision and Computer Graphics. He has also published 22 technical/research papers in National and International. He is an Sun certified programmer as well as Sun certified trainer by Sun Microsystems.

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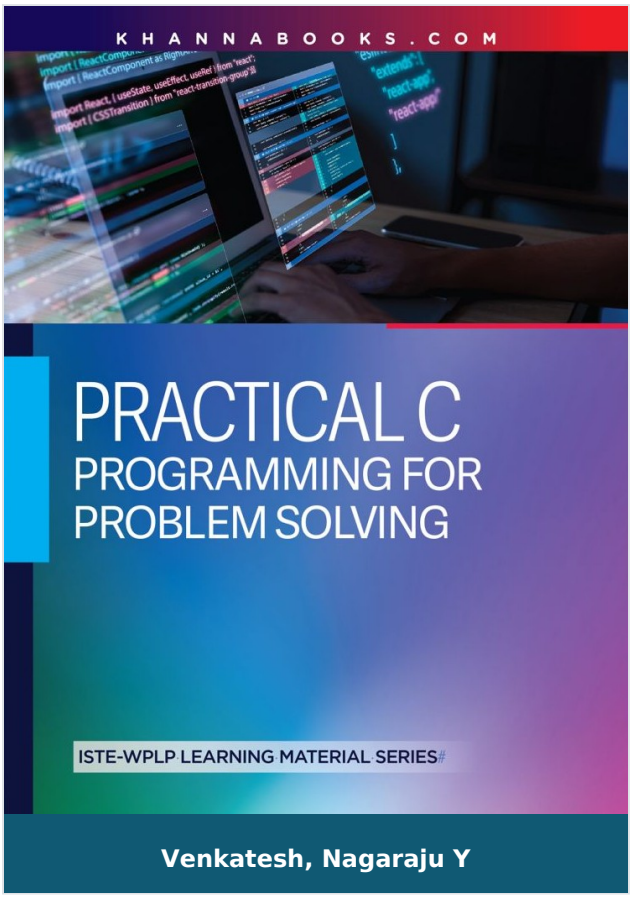


# Practical C Programming For Problem Solving

| | |
|---|---|
| **Author :** | Venkatesh, Nagaraju Y |
| **ISBN 13 :** | 978-93-55386-74-8 |
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## Product Description

The educational objective of this textbook is to introduce the fundamentals of C, its building blocks, the logic flow is to programs, and to provide a detailed explanation of C program coding.

This book is dedicated to pragmatic C programming. C is a language that makes learners feel confident while learning it. That's because C is a standardized and simple language with respect to syntax. It stands as the language of choice for hardware programming among programmers. This book emphasizes the skills required to solve real- world problems through programming. It not only offers insights into the working procedures but also delves into the fundamentals, teaching the creation of flowcharts and writing algorithms.

This book serves two general purposes. First, it acts as a manual for graduate-level students who wish to learn coding using the C programming language. Second, it serves as a guiding companion for newcomers in companies, aiding them in understanding logic flow and the art of coding. Learning C has become a prerequisite for Computer Science graduates, as the language is both simple and comprehensible. The motivation behind the writing of this book is to facilitate the process of learning C and mastering logic  flow.

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## Table Of Contents


- Introduction to C Programming Fundamentals
- Basic Lebel C Programs
- Intermediate Lebel C Programs
- Concepts Oriented C Programs
- Sorting and Searching Algorithms
- Advanced C Programs
- Project Implementation Using C


## Author


**Venkatesh**

Venkatesh,

**Nagaraju Y**

Nagaraju Y



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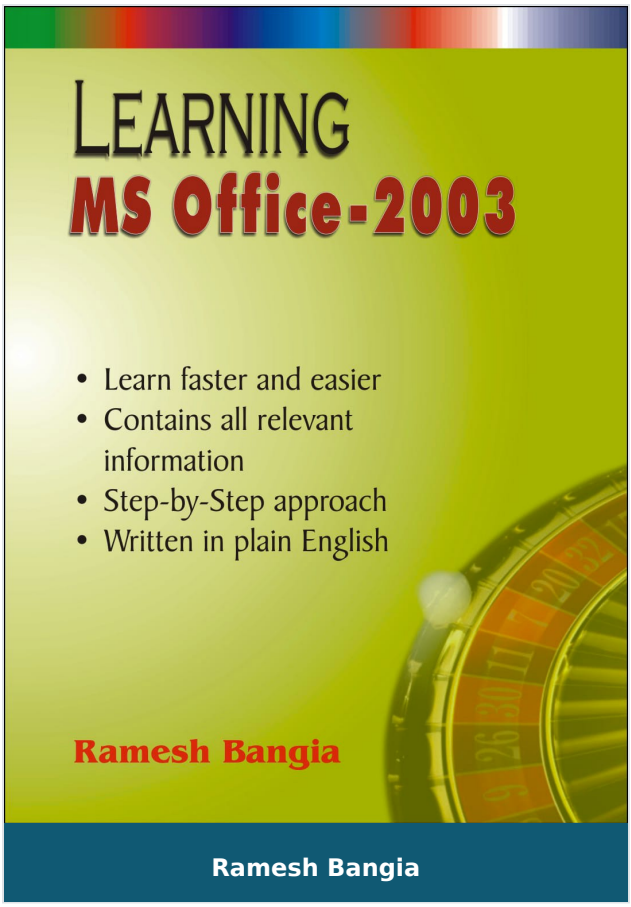


# Learning MS Office 2003

| | |
|---|---|
| **Author :** | Ramesh Bangia |
| **ISBN 13 :** | 978-81-87325-42-0 |
| **ISBN 10 :** | 8187325429 |
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## Product Description

Learning of a software is both easy and difficult. It depends upon what level you planning to learn. If you are learning only for the working use, then it is very easy. But, when you try to go deep into it, then you realise how difficult it is to master it. Microsoft Office 2003 is such a vast subject that it will take a lot of time to understand it fully. This book has been written in mind to make you aware of the options available in the software and how they can be used. It is like telling the child about the steps and stairs. You are the one who is to climb the stair. This book will just guide you how to use the stairs.

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- Introduction to Microsoft Office 2003
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- Proofing a Document in Microsoft Word 2003
- Working with Longer Documents
- Creating Documents using Wizards
- Additional Commons of Word 2003
- Mail Merge in Word 2003
- Using Drawing Tools in Word 2003
- Creating a Worksheet in Excel 2003
- Advanced Techniques of Excel 2003
- Working with Charts in Excel 2003
- Creating a Database in Access 2003
- Working with Tables in Access 2003
- Working with Reports in Access 2003
- Creating Presentations using Auto Content Wizard in Power Point 2003
- Creating New Presentation in Power Point 2003
- Creating Presentation from Template in Power Point 2003
- Working on Presentation in Power Point 2003
- Working in Slide Sorter View in Power Point 2003
- Making Slide Shows in Power Point 2003
- Creating a Web Page using Wizard in Front Page 2003
- Creating a Web Page using Template in Front Page 2003
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- Using Info Path Forms 2003
- Using Office Visio 2003
- Speech and Handwriting
- Questions

## Author

**Ramesh Bangia**

Ramesh Bangia, has been writing computer books on various topics. He has written books for Schools. Training Institutes, Technical Universities, Distance Education Programs, Colleges and General. His tally of books exceeds 500 in number. Trained both in India and Abroad and having studied at IIT Delhi, he becomes automatic choice for most of the publishers in India. Though based in Delhi, his books are popular all over India and are even exported to Middle Ease and African countries.

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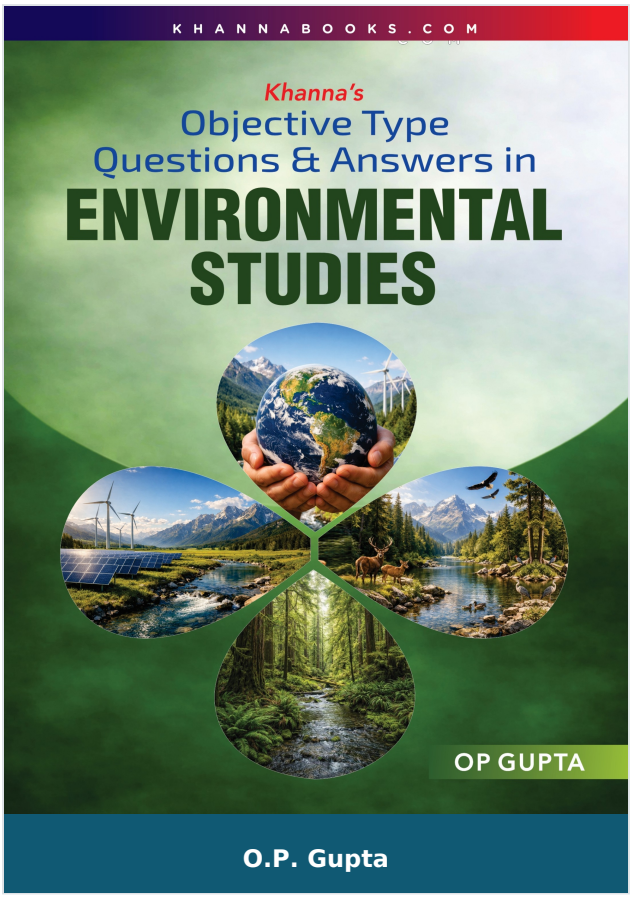


# Khanna's Objective Type Questions & Answers in Environmental Studies

| | |
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| **Author :** | O.P. Gupta |
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## Product Description

Objective Type Questions and Answers in Environmental Studies by Om Prakash Gupta is a meticulously structured academic guide designed to simplify the complexities of environmental science. This comprehensive resource serves as a vital tool for students and professionals navigating the interdisciplinary nature of ecology, pollution control, and sustainable development. By blending fundamental concepts with a rigorous examination framework, the book provides readers with the clarity needed to understand human-environment interactions and the critical challenges facing our planet today.

The book's primary objective is to foster environmental consciousness and ethics through a diverse range of assessment styles. It is specifically tailored to meet the curricular requirements of degree, postgraduate, and diploma students across various engineering branches. Additionally, it serves as an essential reference for candidates preparing for professional associate membership examinations, such as AMIE, AMIIM, and AMIIChE, as well as B.Sc. and M.Sc. students. With its systematic approach and practical focus, the book bridges the gap between academic theory and real-world environmental management.

Salient Features

• Dual-Section Assessment Model: The text is strategically divided into objective-type questions and short-answer formats to cater to different examination patterns and learning styles.

• Multidisciplinary Scope: It covers a wide range of topics, including ecology, ecosystem dynamics, biodiversity, and the socio-economic impacts of industrialization and urbanization.

• Sustainable Development Focus: A significant emphasis is placed on sustainable practices, exploring the balance between economic growth and the preservation of

natural resources for future generations.

• Environmental Impact Tools: The book provides detailed insights into critical regulatory and assessment tools, such as Environmental Impact Assessment (EIA), essential for modern engineering and policy-making.

• Biodiversity and Conservation: Readers gain an in-depth understanding of genetic, species, and ecosystem diversity, alongside the legislative frameworks designed for wildlife and forest protection.

• Human-Centric Challenges: The content addresses pressing human issues, including population explosion, family welfare programs, and the health impacts of environmental pollutants like heavy metals and pesticides.

• Comprehensive Technical Glossary: A specialized glossary is included to define complex terminology in environmental science and renewable energy, ensuring students master the professional vocabulary of the field.

• Practical Problem Solving: Through its diverse Q&A format, the book encourages the application of engineering interventions for environmental protection, such as flood control and waste management.

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- Preface
- SECTION A:  Objective Type Questions
- SECTION B: Short Answer Type Questions
- SECTION C:  Glossary


## Author

**O.P. Gupta**

O.P. Gupta Om Prakash Gupta is basically being a chemical engineer, he has a practising experience of efficient Ennergy management and HR functions in steel Industry for more than three decades. privileged to be the youngest writer of technical books in the country (for he had written his first book at the age of 24 years while doing M. Tech. at I.I.T kanpur in 1979), he has authored many frontline books for engineering students. besides, being the regular faculty member in technical courses for Management Trainees (Technical), he has also visited england and france on a study tour sponsored by United Nations Development Programme (UNDP) to study the scope of energy conservation in steel plants in 1987.

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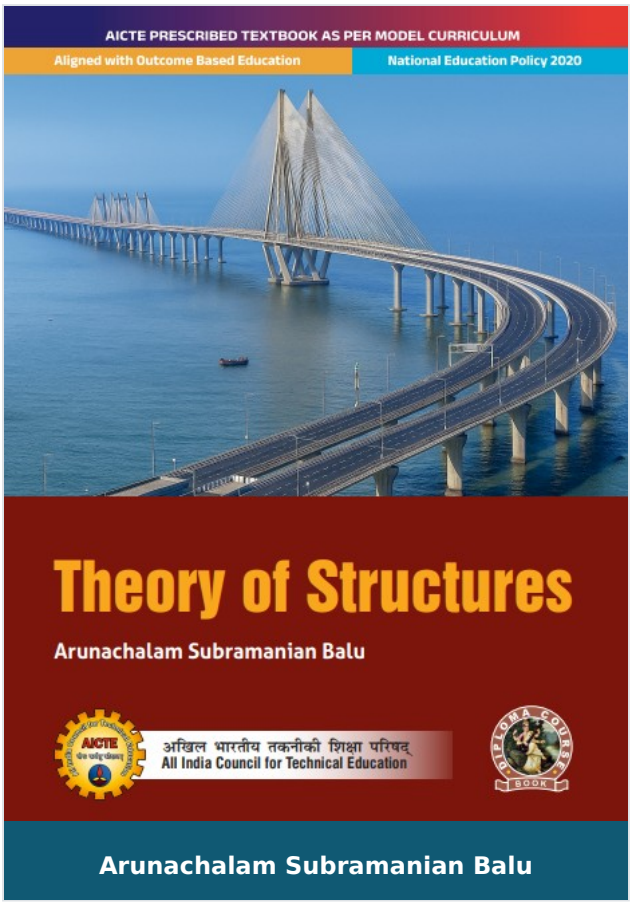


# Theory of Structures

| | |
|---|---|
| **Author :** | Arunachalam Subramanian Balu |
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| **ISBN 10 :** | 9355387334 |
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## Product Description

### Theory of Structures

Theory of structures is a basic core course developed for understanding the behaviour of structures. The presentation of physical principles founded in the field of mechanics can be used for understanding the behaviour of structures, which is the prerequisite for designing any structures. This book aims to help students in developing ability to analyze structures i8n a simple and logical manner. The contents are divided into five units as required for the students of diploma in civil engineering. The main contents of this book are aligned with the model curriculum of AICTE followed by the concept of Outcome based Education as National Education Policy (NEP)2020.

Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
- Book provides lots of recent information, interesting facts, QR code for E-resources, QR code for use of ICT, projects, group discussion etc.
- Student and teacher centric subject materials included in book with balanced and chronological manner.
- Figures, tables, and software screen shots are inserted to improve clarity of the topics.
- Apart from essential information a ‘know more’ section is also provided in each unit to extend the learning beyond syllabus.
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- Solved and unsolved problems including numerical examples are solved with systematic steps

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- Outcome Based Education
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- Slope and Deflection
- Fixed and Continuous Beams
- Moment Distribution Method
- Simple Trusses
- Appendices
- References for Further Learning
- CO and PO Attainment Table
- Index


## Author

**Arunachalam Subramanian Balu**

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Dr. Arunachalam Subramanian Balu Associate Professor, Department of Civil Engineering, National Institute of Technology, Karnataka, Surathkal, Mangalore, Karnataka

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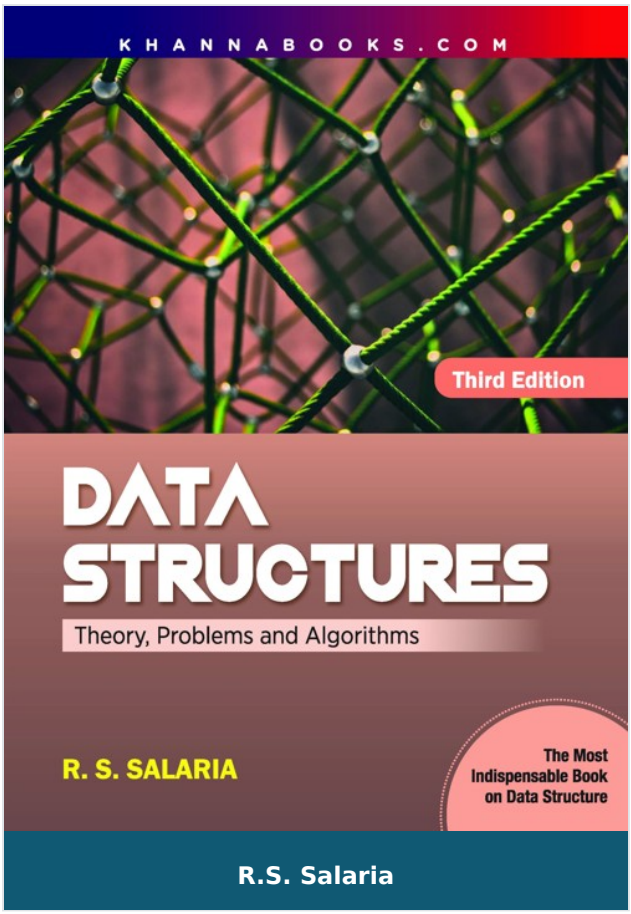


# Data Structures

| | |
|---|---|
| **Author :** | R.S. Salaria |
| **ISBN 13 :** | 978-93-86173-96-6 |
| **ISBN 10 :** | 9386173964 |
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## Product Description

This book is specially designed to serve as textbook for the student of CA, BSc IT, MCA BE/B. Tech (CSE/IT) MSc (CS/IT) of all Indian Universities.

The subject of data structures is of prime importance for the students of computer science and IT it is of practical nature and requires thorough understanding of basics and concepts of the subject before punting them into practice.

This book will help the Student to meet all their basic requirements.

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- Introduction to Data Structures
- Introduction to Algorithms
- Arrays
- Linked Lists
- Stacks
- Queues
- Trees
- Heaps
- Graphs
- Hashing and Hash Tables
- Sorting Algorithms


## Author

**R.S. Salaria**

Prof. R.S. Salaria is a superior teacher, a prolific author and a great motivator. He is an alumnus of IIT, Delhi. He is a Certified Software Quality professional by Ministry of Information Technology, Govt. of India: Sun Certified Programmer as well as Sun Certified Trainer by SUN Microsystems. He is a life member of computer society of India, Mumbai: Institution of Electronics and Telecommunication Engineers, New Delhi: Indian Society for Technical Education, New Delhi: Punjab Academy of Sciences, Patiala. Presently, he is talking initiatives to Sensitize the citizens of this great country about their fundamental responsibilities towards society and seeking their contributions to make the society a wonderful place for happy and peaceful living. </p

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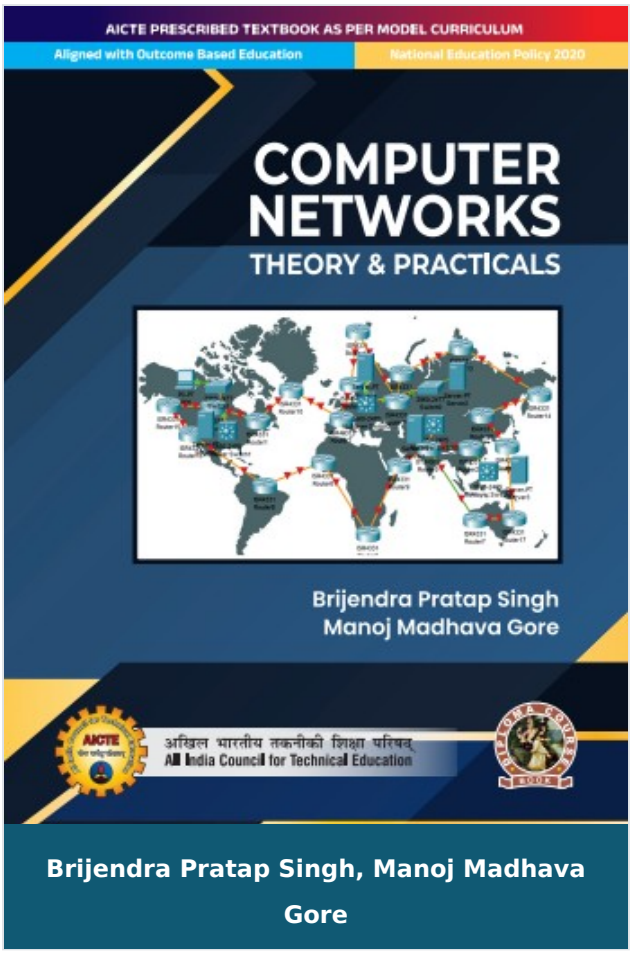


# Computer Networks: Theory & Practicals

| | |
|---|---|
| **Author :** | Brijendra Pratap Singh, Manoj Madhava Gore |
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## Product Description

**Computer Networks: Theory & Practicals**

The use of network applications and the internet is increasing every day. It is desirable that each user should have elementary knowledge about the working of network applications and the internet. Moreover, the professionals are supposed to have and understanding of network application development. Network architecture, network protocols, and network management. This book elaborates on the network architecture, transmission media, network topologies, ethernet, WI-FI, routing algorithms, routing protocols, IPv4 addresses, transmission control protocol, application layer protocols, simple network management protocol, and related topics. Moreover, the book takes alongside the laboratory tasks, such as the configuration of devices, creation of wired and wireless local area network and others.

Salient features:

- Content of the book aligned with the mapping course outcomes, programs and Units Outcomes.
- In the beginning of each unit learning outcomes are listed to make the student understand what is expected out of him/her after completing that unit.
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- Student and teacher centric subject materials included in book with balanced and chronological manner.
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- Short questions, objective questions and long answer exercises are given for practice of students after every chapter.
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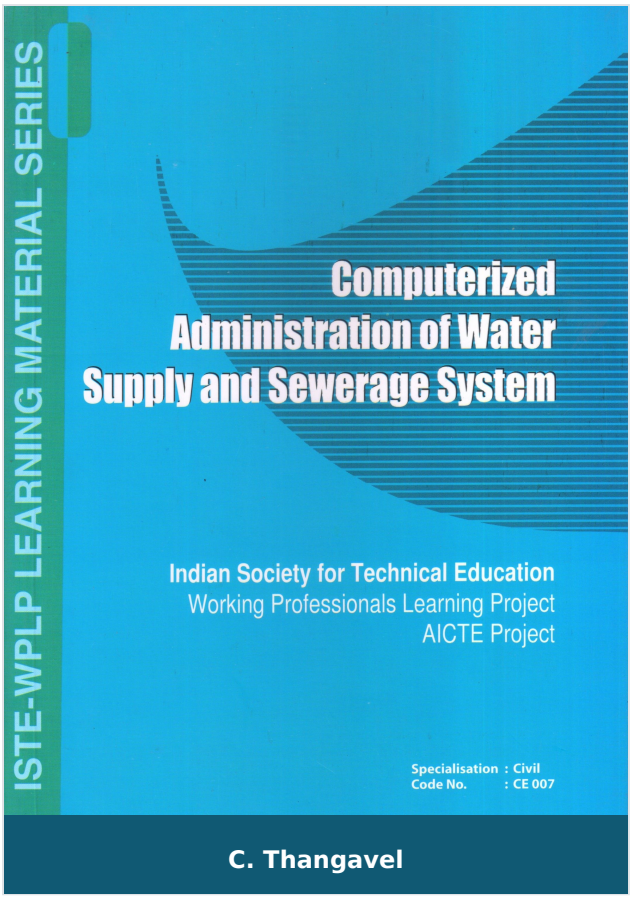


# Computerized Administration of Water Supply and Sewerage System

| | |
|---|---|
| **Author :** | C. Thangavel |
| **ISBN 13 :** | 978-93-55386-66-3 |
| **ISBN 10 :** | 9355386664 |
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## Product Description

Through working professionals need to spend enough time to learn the state-of-art-technology to improve the existing system, it may be very difficult for them to spare enough time to cope with the tremendous technological changes take it is designed and developed keeping view of their requirements. The main objective of this book is to enable the professionals to identify, update and enhance their knowledge on the technology and put to use in a perfect way to deliver better services to the citizens/customers with sustainability. It has the following important features.

1. Advantages and need for computerization.
2. Procedure to identify the requirements and appropriate technology to use.
3. Steps to be followed during the process of system development and implementation.
4. Data analysis cum mining for decision support.
5. External interfaces for easy integration.
6. Important steps for sustaining the system.

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- External Interfaces for the proposed System
- Evaluation of the Computerized System
- Implementation Issues of the Computerized System
- Annual Maintenance Contract (AMC)
- Procedure for Enhancement/ Upgradation
- Case Study
- Annexure


## Author

**C. Thangavel**

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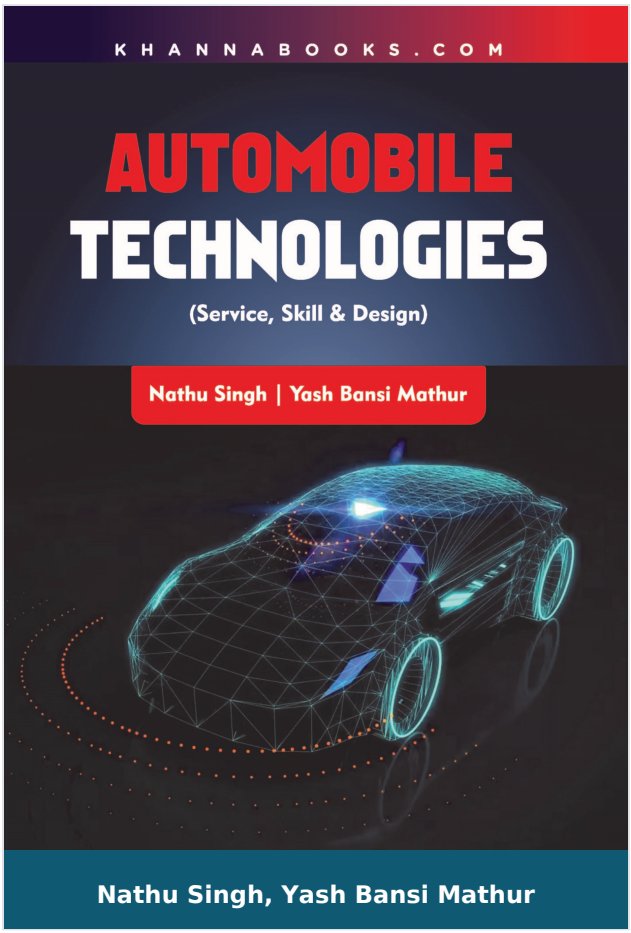


# Automobile Technologies (Service, Skill & Design)

| | |
|---|---|
| **Author :** | Nathu Singh, Yash Bansi Mathur |
| **ISBN 13 :** | 978-93-55380-48-7 |
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To award Certificate/Diploma/Advanced Diploma/ Degree level Professional courses to the technicians and engineers and to provide vertical mobility vertical mobility in the Service, Skills and Design stream of automotive sector, some model curriculum has been designed by the Technical Boards and Technical Universities has included in the book. The book consists of Motor Vehicle Technology, Automotive Systems, Drawing and Design. These systems are very useful for all level of technicians covering some practical and theoretical knowledge and technics of Automotive field. After studying the book, the person would acquire relevant and appropriate technical skill together with the professional competencies in the automotive fields, so that he may properly prepare to take gainful employment in the field.

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- Automobile Engine Cooling and Fuels
- Fuel Systems of Diesel Engines
- Fuel Systems of Petrol Engines and Carburetors
- Petrol Engine Injection, Performance and Testing Systems
- Unit-3: Automotive System Design
- Design of Clutches and Gear-Box
- Design of Propeller Shats and Axles
- Design of Brake Systems
- Design of Suspension and Steering System
- Statistical Consideration in Design and Optimization
- Unit-4 Automotive System Design
- Drafting of Sectional Views of the Main Assembles of I.C. Engine
- Free hand Diagram of the Main Systems of the Vehicle
- Drafting of Sectional Views of the Main Assemblies
- Vehicle Depot Organization


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- Design of the Main Components of an Automobile Engine

## Author

**Nathu Singh**

Nathu Singh,

**Yash Bansi Mathur**

Yash Bansi Mathur

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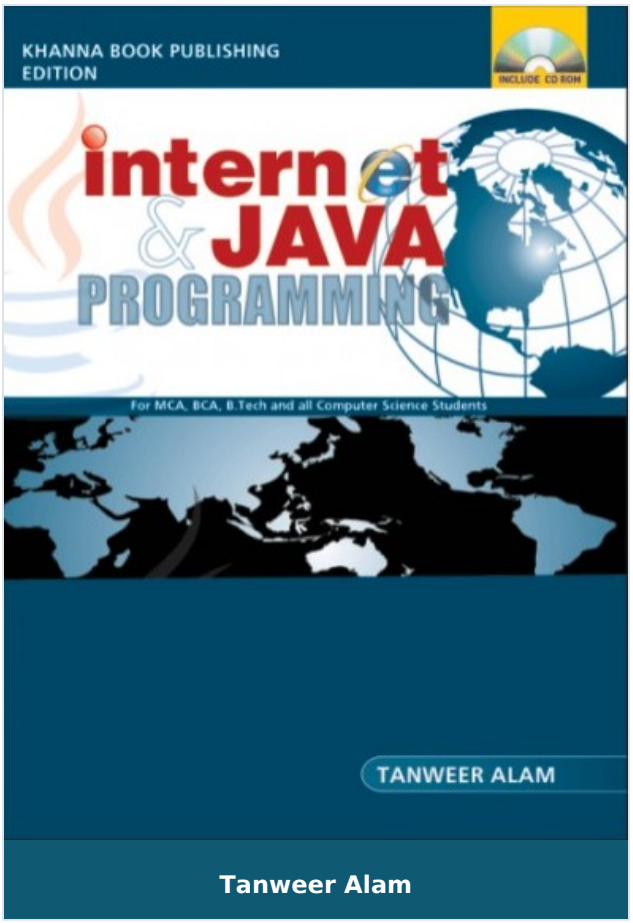


# Internet & JAVA PROGRAMMING

| | |
|---|---|
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## Product Description

This book will be of great help to programmers who are already familiar with programming in C,C++ or VB. They can upgrade their skills through this book and achieve great height in the world of computer programming. Java definitely has a future in research and teaching, as well as system development. The objects of this book is to promote that future by spreading the use of the language as widely as possible. This book is divided into a number of chapters. each chapter is a self contained area. The chapters in this book are around in a sequence order. The programs presented in this book are just to understand the application. The objective of this book is the serve as a textbook for the subject " Internet and Java Programming" in various course viz. MCA/B. Tech/BCA/M. Sc./B. Sc. etc. The objective of this book is the serve as a textbook for the subject "Internet and Java programming" in various courses vz. MCA, B. Tech., M.Sc., BCA and B. Sc. programmers can upgrade their skills through this book and achieve great height in the world of computer programming. The programs presented in this book are just to understand the application. Includes coverage of Servlets, JSP, RMI, Java Beans, EJB, Applets, AWT, JDBC and Swings etc. The book is self contained. The chapters is this book are arranged in a sequence order. Hundred of fully tested programs with output. Sort questions with answers are just to understand the topics. Moving from C++ to Java differentiates the features of both C++ and Java. Readers can understand the gap between Java and C++. Include Mini projects like calculator, Hotel Management System and Pay Roll Mgt. System.

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- Java Servlet
- Java Server Pages
- Moving from C++ to Java
- Application of Java
- Mini Projects
- Appendix A: Short Questions with Answers
- Appendix B: HTML

## Author

**Tanweer Alam**

Tanweer Alam has an experience of more than seven years in the Teaching field. Currently, He is working at MCA Department, Meerut Institute of Engineering and Technology, Meerut. He has got his MCA Degree in 2003 from UP Technical University, Lucknow, UP. He has got his Master Degree in Mathematics in 2000 from CCS University, Meerut, UP. He has got his MPhil Degree in Computer science in 2007 from MKU, Madurai. He is also MTech in IT and currently, He is doing PhD in Computer Science & Engineering. He presents more than thirty research papers in various reputed national/international Conferences/Journal.

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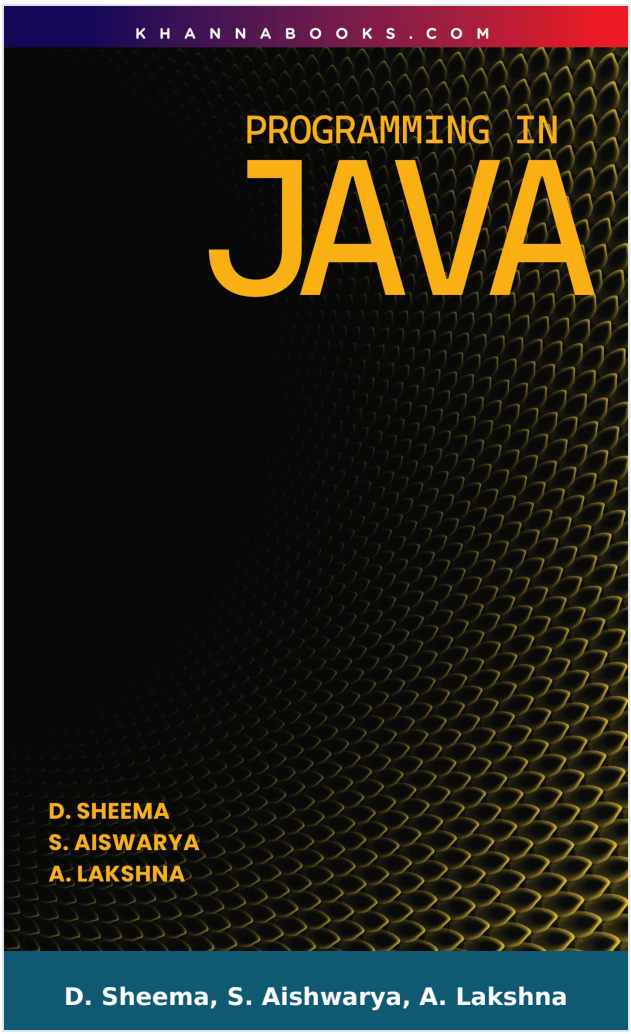


# Programming in Java

| | |
|---|---|
| **Author :** | D. Sheema, S. Aishwarya, A. Lakshna |
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## Product Description

This book is your complete resource for learning Programming in Java. Designed for both students and aspiring developers, it offers a robust and comprehensive path to mastering the Java language. You will start by building a strong foundation in Java basics, including the concepts of the Java Virtual Machine (JVM) and bytecode that enable its famous platform independence. The book then systematically covers the core principles of Object-Oriented Programming (OOP), such as inheritance, polymorphism, and encapsulation. By progressing to advanced topics like exception handling, I/O programming, Collections, and database connectivity (JDBC), you will gain the skills necessary to develop secure, high-performance applications.

Salient Features:

• Foundation to Advanced: Provides a clear, step-by-step learning curve, covering all topics from Java basics, data types, and tokens to enterprise technologies like JDBC, Servlets, and JSP.

• Write Once, Run Anywhere: Detailed explanation of the Java Virtual Machine (JVM) and Bytecode, highlighting the language's key feature of platform independence (WORA).

• Object-Oriented Mastery: In-depth coverage of OOP concepts including Classes, Objects, Inheritance, Method Overloading, and Method Overriding, with clear code examples.

• Focus on Robustness and Security: Emphasis on Java's built-in features for early error checking, runtime safety, and security mechanisms to protect applications.

• Practical Learning: Includes real-world examples and step-by-step instructions for setting up the Java Development Kit (JDK) and compiling and running your first programs.

• Key Programming Constructs: Thorough discussions on essential structures like Java Tokens, Access Modifiers, Operators, Control Flow Statements, and Exception Handling for writing efficient code.

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- File Streams and Collections Framework
- GUI Programming, Database Connectivity, Server-Side Programming


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