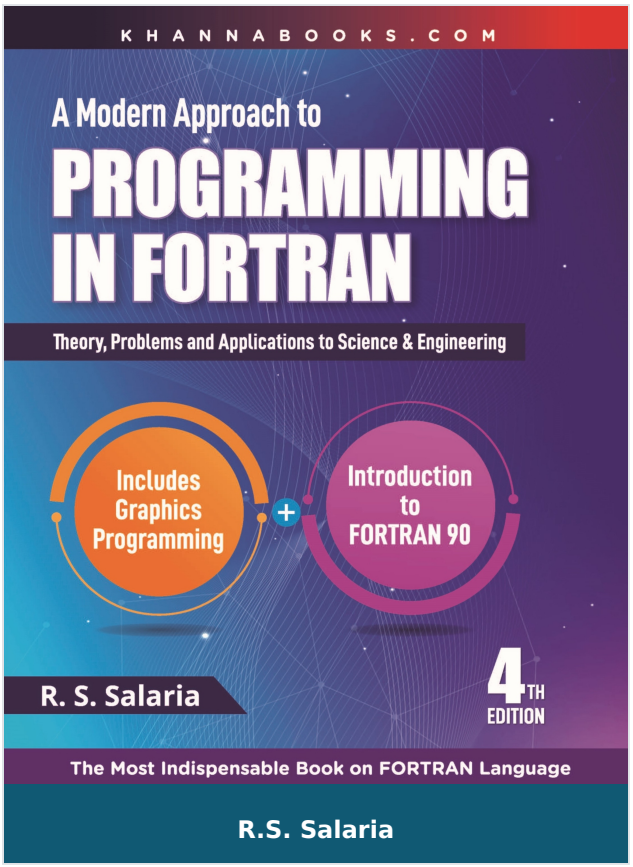


# A Modern Approach to Programming in Fortran

| | |
|---|---|
| **Author :** | R.S. Salaria |
| **ISBN 13 :** | 978-81-90698-88-7 |
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## Product Description

This book providers a comprehensive account of the Microsoft FORTRAN 77 version 5x. It is designed to serve as a textbook for those learning the language and also as a complete reference guide for the user of FORTRAN. Introduces computers in a very simple and attractive style. illustrates the importance of problem solving and program design, illustrates the usage of various program design tools, Provides numerous programming examples, Explains graphic capabilities of the language at a greater length, Introduces FORTRAN 90. Provides ready to run programs for numerical and statistical methods.

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## Table Of Contents


- Introduction to Computers
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- Handling Keyboard Input & Screen Output
- Writing Simple Programs
- Control Flow Statements
- Array
- Structures
- Functions & Subroutines
- Handling Data Files
- Working with Graphics
- Introduction to FORTRAN 90
- Selected Programs for Numerical Methods
- Selected Programs for Statistical Methods


## 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

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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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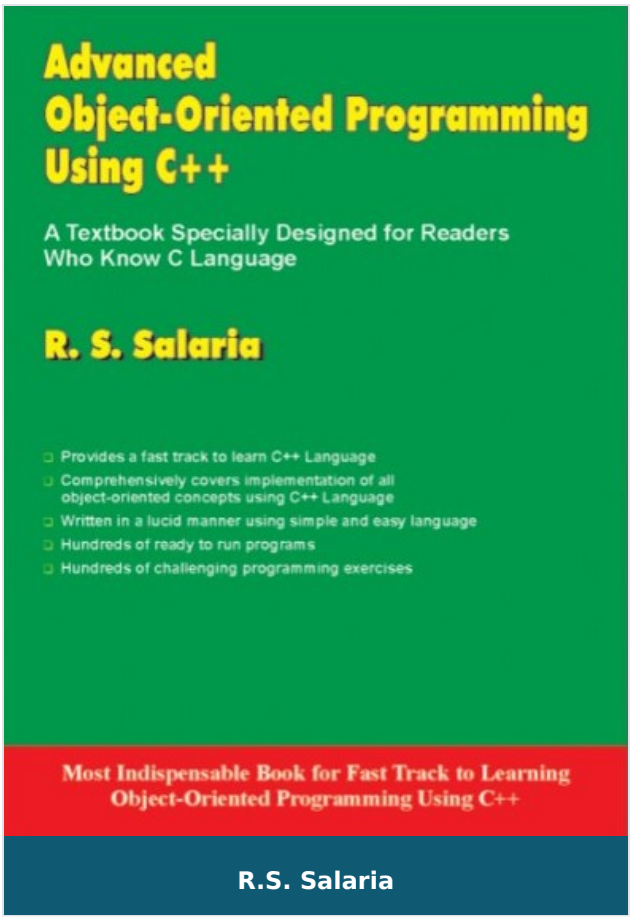


# Advanced Object-Oriented Programming Using C++

| | |
|---|---|
| **Author :** | R.S. Salaria |
| **ISBN 13 :** | 978-81-90744-48-5 |
| **ISBN 10 :** | 8190744488 |
| **E-ISBN 13 :** | 978-81-90744-48-5 |
| **Edition :** | 1 |
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| **Year :** | 2014 |
| **Language :** | English |
| **Publisher :** | Khanna Publishing House |
| **M.R.P :** | Rs 350.00 |
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| **Condition Type :** | New |
| **Country Origin :** | India |

## Product Description

There are two groups of readers-one who have no programming experience with C Language and the other who have programming experience with C language. This book is designed for those readers who have programming experience with C language and will provide them a fast track to learn object-oriented programming using C++. There is no repetition of the topics that they already know while learning C language. Since object-oriented concepts are altogether a new addition to C language, those are thoroughly explained and demonstrated with well designed programming examples. Provides a comprehensive coverage of the subject. Demonstrates the development of programs in a good programming style. Large number of ready to run programs for reference. Large number of multiple choice questions, true/false questions and review exercises to test your knowledge about the subject learned. Large number of programming exercises to test your programming skills acquired.

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## Table Of Contents


- Migrating from C to C++
- Object-Oriented Programming Concepts
- Handling Keyboard Input & Screen Output
- Classes and Objects
- Pointers and Dynamic Memory Management
- Constructors and Destructors
- Operator Overloading and Type Conversion
- Inheritance
- Virtual Functions and Polymorphism
- Exception Handling
- Templates and Generic Programming
- File Handling
- Working with Graphics Using C++
- Introduction to Standard Template Library
- Object-Oriented Implementation of Data Structures
- Object-Oriented Implementation of Sorting and Searching 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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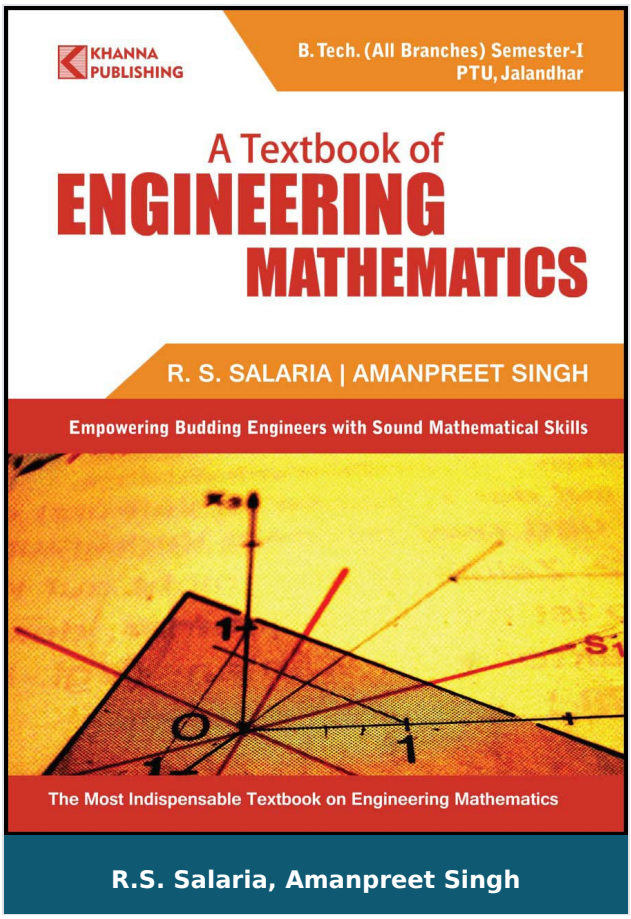


# A Textbook of Engineering Mathematics (PTU-I)

| | |
|---|---|
| **Author :** | R.S. Salaria, Amanpreet Singh |
| **ISBN 13 :** | 978-93-82609-98-8 |
| **ISBN 10 :** | 9382609989 |
| **E-ISBN 13 :** | 978-93-82609-98-8 |
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| **Publisher :** | Khanna Publishing House |
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## Product Description

The subject of Engineering Mathematics is an integral part of the course curriculum of Bachelor of Engineering/Technology (BE/B. Tech) program of all Indian Universities. The present state of teaching and learning of Mathematics is not that encouraging. A lot has to be done on both the Fronts.

The book in your hand is a first step of our commitment to uplift the standard of teaching and learning of Mathematics. We assure you that in our continuous journey in this endeavor and with your whole hearted support, we hope to make significant contribution in the teaching and learning of Mathematics We hope to see that day when we hear from our student that Mathematics is a wonderful subject and you all are relishing it.

This book is designed to serve as a textbook for the students of B. Tech. (All Branches) Semester-I of Punjab Technical University, Jalandhar

While writing, due care is taken to present the subject matter in a simple and illustrative manner so that a reader can grasp it with quite ease and can built basic and conceptual knowledge in the subject

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- Useful Formulae, Theorems and Results
- Differential Calculus
- Partial Derivatives
- Applications of Partial Differentiation
- Integral Calculus
- Introduction to Three Dimensional Geometry
- Multiple Integrals
- Vector Calculus
- Applications of Vector Calculus


## 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

**Amanpreet Singh**

Amanpreet Singh Amanpreet Singh SGTB Khalsha College, Anandpur Sahib, Formerly with Rayat-Bahra Institute of Engineering& Nano Technology, Hoshiarpur.



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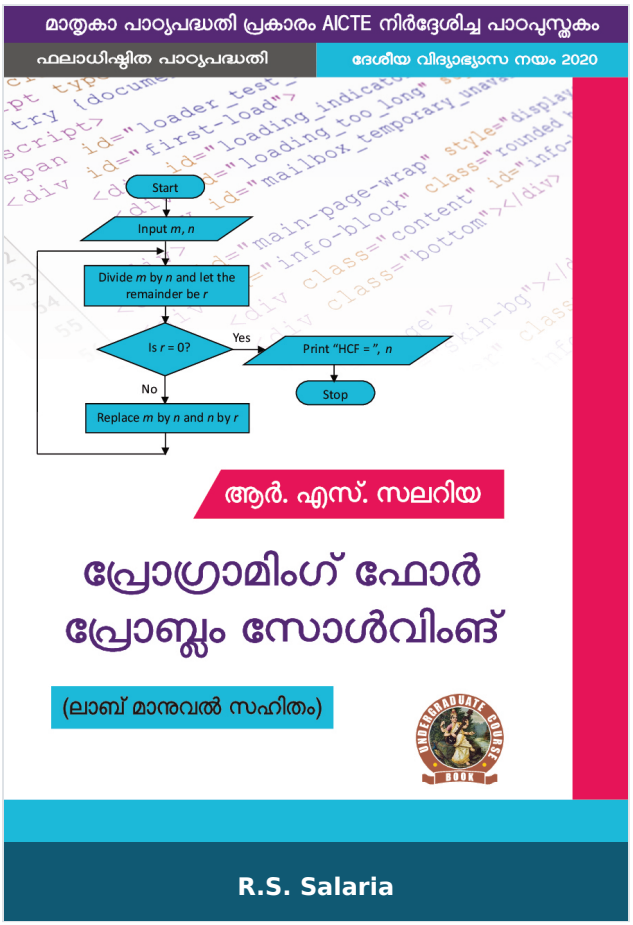


# Programming for problem solving (with Lab Manual)

| | |
|---|---|
| **Author :** | R.S. Salaria |
| **ISBN 13 :** | 978-93-55381-32-3 |
| **ISBN 10 :** | 9355381328 |
| **E-ISBN 13 :** | 978-93-55381-32-3 |
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| **Year :** | 2025 |
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| **Publisher :** | Khanna Publishing House |
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| **Categories :** | AICTE Prescribed Textbooks, Book Store, Ebooks, Malayalam Books |
| **Condition Type :** | New |
| **Country Origin :** | India |

## Product Description

This textbook is designed as per the model curriculum of AICTE for the first year students of all branches of undergraduate program in Engineering & Technology (BE/B. Tech). The subject of programming for problem Solving aims at developing problem solving skills among the students and the skills to create programs in C language for their implementation. This book emphasizes to empower the students to grasp the skills required for problem solving and to develop deep understanding of the constructs of C language. These aspects of the subject are well illustrated through enormous solved programming problems.

Salient Features:

1. Simple and lucid language that enables students to grasp the subject.
2. Demonstrates the elegant programming style.
3. 165+ ready to run programs for reference and to illustrate the program development process.
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6. 90+ Programming problems to provide an opportunity to harness programming skills.

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- Functions.
- Recursion.
- Structures.
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- File Handling.
- References for further learning
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## 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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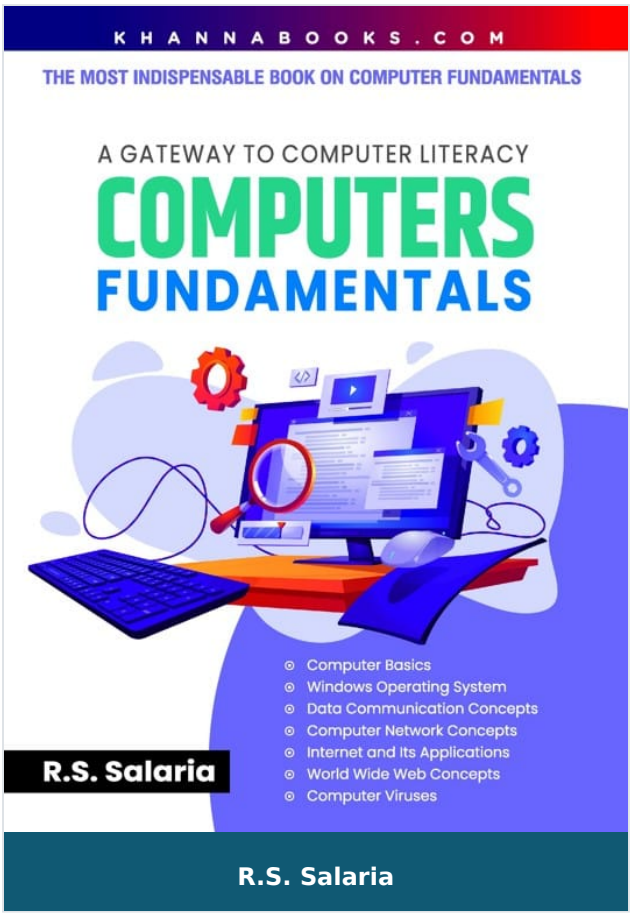


# Computers Fundamentals

| | |
|---|---|
| **Author :** | R.S. Salaria |
| **ISBN 13 :** | 978-93-81068-53-3 |
| **ISBN 10 :** | 9381068534 |
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## Product Description

Simple and easy language, encourages self study, Enables to use computer independently, provides working knowledge of Window XP operating system, Introduces data communication and network concepts, Provides working knowledge of Internet and World Wide Web, Introduces computer viruses.

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- Computer as a System
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- Programming Languages
- Operating Systems
- Data Communications
- Computer Networks
- Internet
- World Wide Web (WWW)
- Computer Viruses


## 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

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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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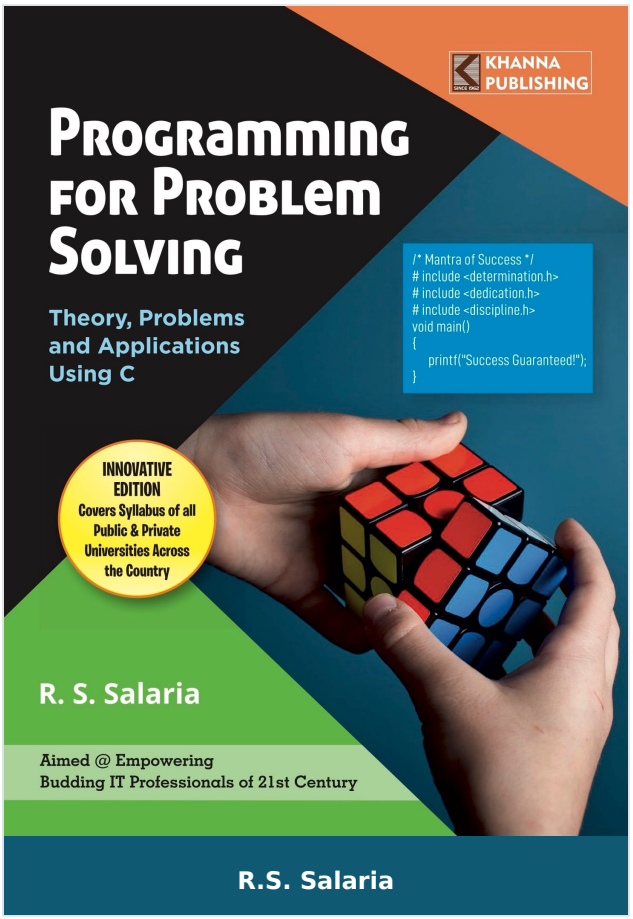


# Programming for Problem Solving

| | |
|---|---|
| **Author :** | R.S. Salaria |
| **ISBN 13 :** | 978-93-89139-11-2 |
| **ISBN 10 :** | 9389139112 |
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## Product Description

. This book is specially conceived with an aim to serve not only as a textbook to cover the syllabus of public & public universities, rather a intelligent book (I-book) that empowers readers to acquire 21st century problem solving skills and sharp coding skills.

. Designed keeping in mind the objective of OUTCOME BASED EDUCTION.

. Simple and lucid language that enables even an average reader to grasp the fundamental concepts of the subject.

. Illustrative example (165+ in number) to demonstrate the application of the concepts.

. Multiple choice questions (225+ in number) to provide an opportunity for self assessment of the fundamental concepts.

. Short-answer type questions (192+ in number) to provide an opportunity to synthesize the fundamental concepts learned to answer precisely.

. Programming exercises (112+ in number) to provide an opportunity to harness their coding skills.

. Coding problems (42+ in number) to conquer the technical round of the CAMPUS PLACEMENT PROCESS with flying colors.

. The whole content is designed and organized as per the BLOOM'S TAXONOMY.

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- Coding/Programming Problems for Campus Placements
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- Overview of C Language
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- Decision Making and Branching
- Decision Making and Looping
- User-Defined Functions
- Arrays and Strings
- User-Defined Data Types : Structure, Union & Enumeration
- Pointers & Dynamic Memory Management
- File Handling
- Preprocessor Directives
- Introduction to Algorithms
- Appendix A : Answers of MCQs
- Appendix B : FAQs for Oral Examination
- Appendix C : Solution of Selected Programming Exercises


## Author

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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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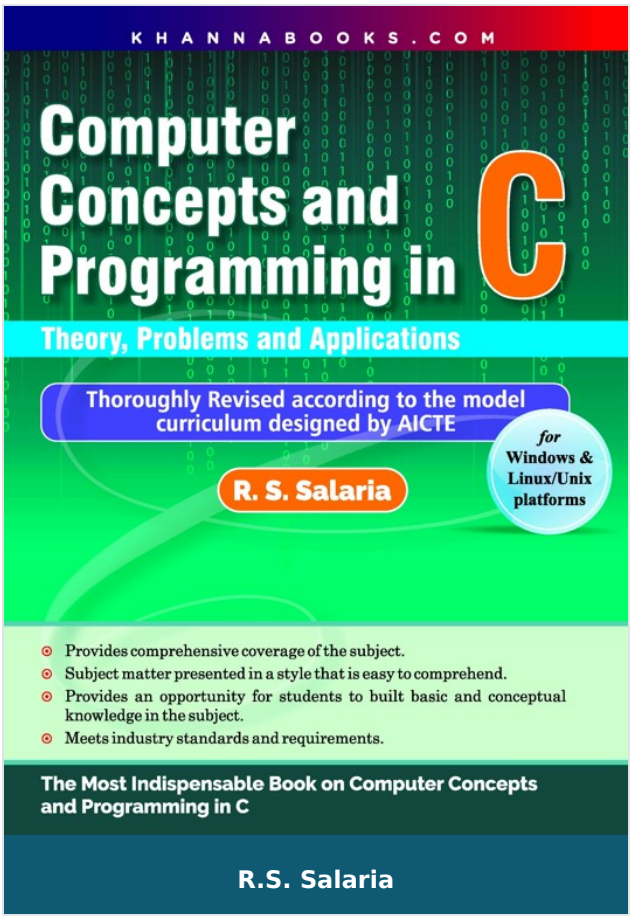


# Computer Concepts and Programming in C

| | |
|---|---|
| **Author :** | R.S. Salaria |
| **ISBN 13 :** | 978-93-86173-78-2 |
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## Product Description

The subject on Computer Concepts and Programming in C (or with the name Fundamentals of Computer and Programming in C) is one of the core courses in various undergraduate and postgraduate program of various ins tuition and universities of India. This book is designed to serve as textbook for those program of study.

While writing the book. special emphasis is given to keep the language very simple and lucid; level of presentation is kept simple and illustrative so that even an average reader can grasp the subject matter with quite ease.

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## Table Of Contents


- Introduction to Computers
- Hardware Concepts
- Software Concepts
- Program Solving and Program Planning
- Overview if C Language
- Built-in Data Type
- Operators and Expressions
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- Decision Making and Looping
- User-Defined Function
- Arrays and Strings
- Implementation of Basic Algorithms
- Structures
- Pointers and Dynamic Memory Algorithms
- File Handing
- Appendix
- Index


## Author

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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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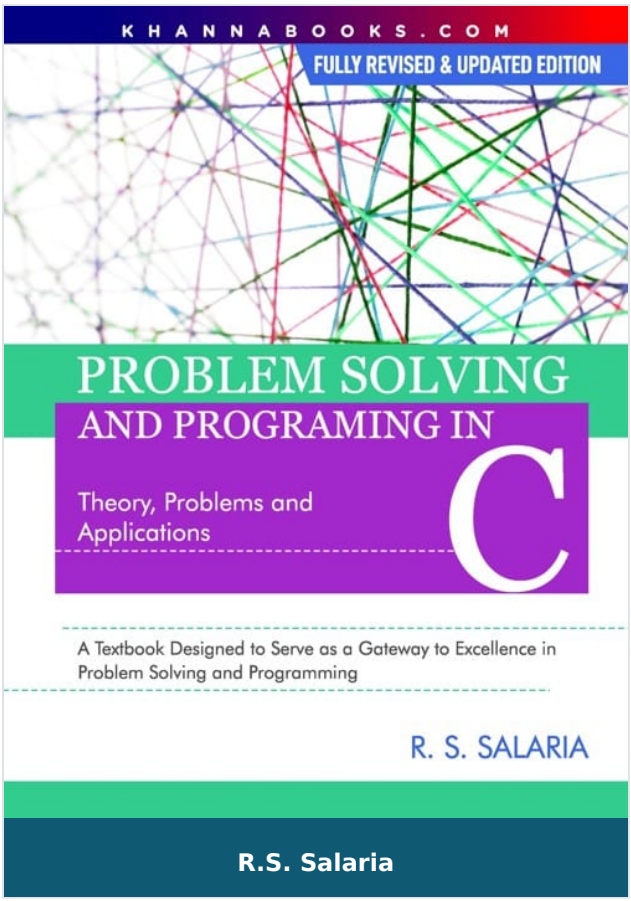


# Problem Solving and Programming in C

| | |
|---|---|
| **Author :** | R.S. Salaria |
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## Product Description

The subject of Programming in C is an integral part of curriculum of all universities and institutes offering undergraduate and postgraduate and program in Computer Science and Information Technology leading to the degree of BE/B Tech, BSc(IT), BCA, MSc(IT), MSc(CS) and MCA.

This book is designed to serve as a textbook for the students taking these program of study. The book lays more emphasis on developing the skill of problem solving and program design, which are pre-requisites to programming.

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- X-NONE
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- Problem Solving and Program Planning
- Overview of C Language
- Fundamentals Data Types
- Operators and Expressions
- Standard Input/ Output
- Decision Making Statements
- Looping Statements
- Functions
- Arrays
- Strings
- Structures and Unions


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- Pointers
- File Handing
- Library Functions and Header Files
- Preprocessor Directives
- 800x600
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**R.S. Salaria**

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# Programming in Python

| | |
|---|---|
| **Author :** | R.S. Salaria |
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## Product Description

This book is designed to serve as textbook for the students taking this subject. It is a book with a difference form other textbooks as it lays more emphasis on the conceptual concepts that are supported by illustrative examples, plenty of challenging theory and programming exercises, to test your knowledge acquired on the subject.

While writing the book, special emphasis is given to keep the language very simple and lucid; level of presentation is kept simple and illustrative so that even an average reader can grasp the subject matter with quite ease. Practically this book will provide you every thing you need on the subject.

Salient Feature

- Simple and easy language to encourage self-study
- Focus on the conceptual concepts of the subject.
- Demonstrates the development of programs in a good programming style.
- Large number of ready to run programs for reference.
- Large number of very short, short, and long theory questions to test your knowledge about the subject learned.
- Large number of programming exercises to test your programming skills acquired.

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- Iterative/Looping Statements
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- Sets
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- Tuples
- Dictionnaires
- File Handling
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- Classes and Objects
- Inheritance
- Operator Overloading
- Errors and Exceptional Handling
- Using Database and SQL


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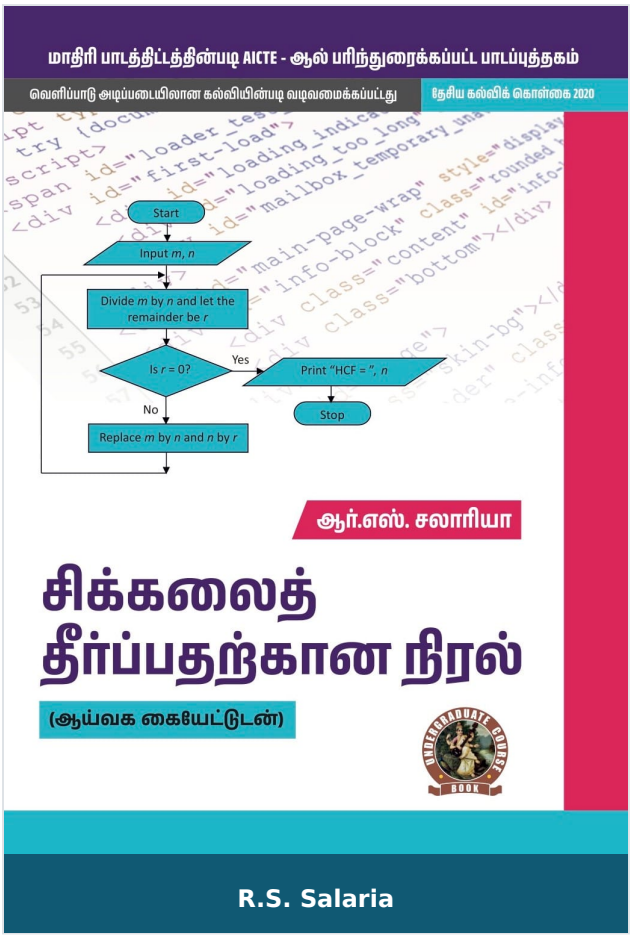


# Programming for Problem Solving (with Lab Manual)

| | |
|---|---|
| **Author :** | R.S. Salaria |
| **ISBN 13 :** | 978-93-91505-67-7 |
| **ISBN 10 :** | 9391505678 |
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| **Country Origin :** | India |

## Product Description

This textbook is designed as per the model curriculum of AICTE for the first year students of all branches of undergraduate programme in Engineering & Technology (BE/B.Tech).

The subject of programming for problem Solving aims at developing problem solving skills among the students and the skills to create programs in C language for their implementation.

This book emphasizes to empower the students to grasp the skills required for problem solving and to develop deep understanding of the constructs of C language. These aspects of the subject are well illustrated through enormous solved programming problems.

# Salient Features:

l Simple and lucid language that enables students to grasp the subject.

l Demonstrates the elegant programming style.

l 165+ ready to run programs for reference and to illustrate the program development process.

l 135+ Short answer type questions to provide an opportunity for self-assessment of the fundamental concepts learned by answering them precisely.

l 165+ multiple choice questions to provide an opportunity to synthesize the fundamental concepts.

l 90+ Programming problems to provide an opportunity to harness programming skills. Programming for Problem Solving (with Lab Manual) (Marathi)

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- Structures
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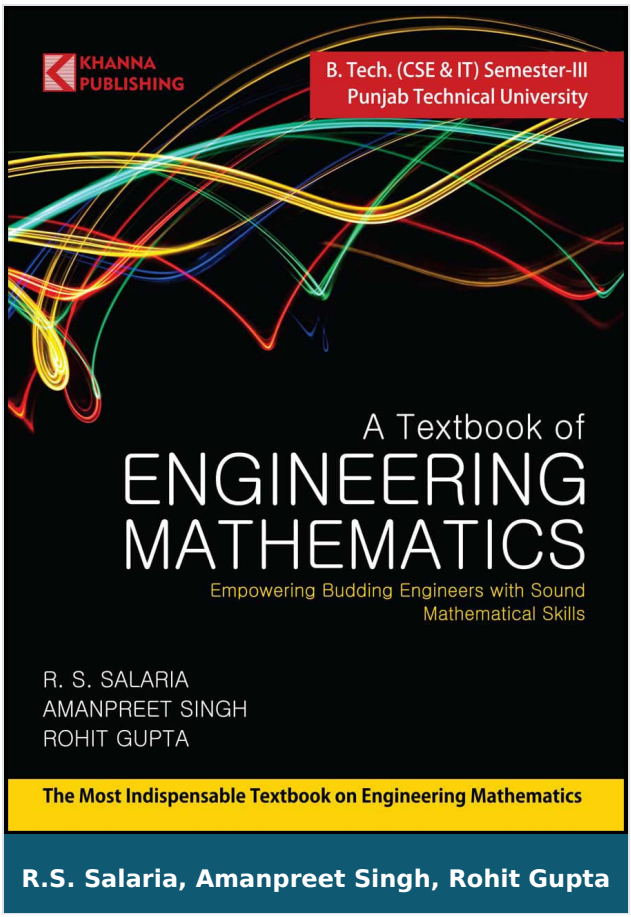


# A Textbook of Engineering Mathematics

| | |
|---|---|
| **Author :** | R.S. Salaria, Amanpreet Singh, Rohit Gupta |
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## Product Description

The subject of Engineering Mathematics is an integral part of the course curriculum of Bachelor of Engineering/Technology (BE/B. Tech) program of all Indian Universities. and is taught in first and/or second semester (s). The present state of teaching and learning of Mathematics is not that encouraging. A lot has to be done on both the fronts.

The book in your hand is a first step of our commitment to uplift the standard of teaching and learning of Mathematics. We assure you that in our continuous journey in this endeavor and with your wholehearted support. We hope to make significant contribution in the teaching and learning of Mathematics. We hope to see that day when we hear from our students that Mathematics is a wonderful subject and you all are relishing it.

This book is designed to serve as a textbook for the students of B. Tech.(CSE & IT) Semester-III of Punjab Technical University, Jalandhar.

While writing, Due care is taken to present the subject matter in a simple and illustrative manner so that a reader can grasp it with quite ease and can built basic and conceptual knowledge in the subject.

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- Fourier Series
- Laplace Transformations
- Partial Differential Equations
- Functions of Complex Variables
- Linear Systems and Eigen-Values
- Numerical Solution of Ordinary Differential Equations
- Probability Distributions
- Sampling Distribution and Testing of Hypothesis


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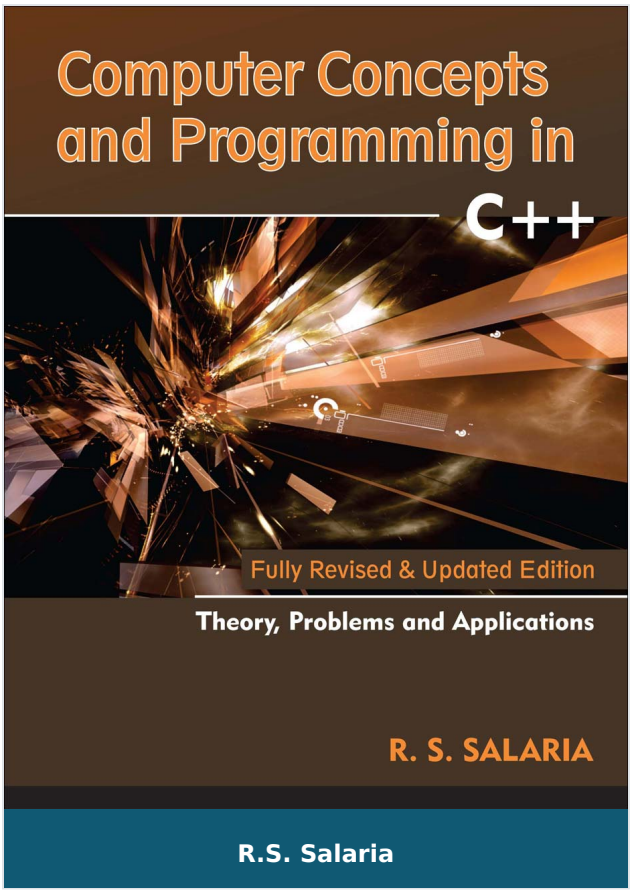


# Computer Concepts and Programming in C++

| | |
|---|---|
| **Author :** | R.S. Salaria |
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## Product Description

The Subjects of Fundamentals of Computers and Programming in C++ are compulsory subjects in the syllabus of BCA, BSc ( Computer Science ), BSc (IT), PGDCA, MSc (Computer Science), MSc ( IT ), B Tech and MCA of all Indian Universities. This book is designed to serve as a textbook for the students studying in these programs of study and it covers the topics of Fundamentals of Computers as well as Programming in C++ .

The level of presentation in simple and illustrative so that a reader can grasp the subject matter with quite ease. Practically this book will provide you every thing you need on the subject of Fundamentals of Computers and Programming in C++.

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- Working With Microsoft Excel
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- Problem Solving and Program Planning
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- Data Types, Operators and Expressions
- Handling Input/Output
- Control Statements
- Functions
- Arrays and Strings
- Introduction to OOPS Concept
- Working with Classes and Objects
- Basis of File Handling


## Author

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