

Ikvinderpal Singh

# SOFTWARE ENGINEERING A Progressive Approach

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## Product Description

**Software Engineering: An Engineering Approach** provides a comprehensive and reader-friendly introduction to software development as a rigorous engineering discipline. Tailored for upper-level undergraduate students, first-year graduate students, and industry practitioners, this text bridges the gap between chaotic programming habits and mature software practices. It outlines structural development life cycles, detailed cost estimation metrics, design modeling frameworks, and exhaustive verification methodologies. By highlighting the integration of Computer-Aided Software Engineering (CASE) tools, the text provides readers with the practical skills needed to deploy high-quality, reliable, and maintainable systems. Ultimately, this volume serves as an essential manual for navigating the rapid technical shifts within modern industrial applications.

**Salient Feature:**

- **Foundational Learning Paradigms**: Evaluates core software development principles, stakeholder management roles, Davis's rules, and CMM quality frameworks to establish structural programming discipline.
- **Essential Algorithms**: Covers foundational process pathways including Waterfall, prototyping, incremental growth, Spiral architectures, and rapid development life cycles.
- **Practical Implementation**: Explains algorithmic test-case design using equivalence partitioning, boundary values, structural basis paths, and systematic integration testing methodologies.
- **Data Strategy**: Integrates data flow diagrams, structured dictionaries, entity relationships, and structural object-oriented UML modeling to streamline architectural configurations.
- **Model Optimization**: Maximizes lifecycle efficiency through automated CASE tool environments, repository coordination architectures, and software quality assurance

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## Author

**Ikvinderpal Singh**

Dr. Ikvinderpal Singh is an Assistant Professor at Trai Shatabdi Guru Gobind Singh Khalsa college Amritsar, bringing 17+ years of academic leadership and research experience to the field of computer science. A Gold Medalist in B.Sc. IT, with an MCA (Distinction) and a Ph.D. in Neural Networks and Image Processing, he is known for blending rigorous research with practical innovation. A prolific academic creator, he has authored 37 books, published 82+ research papers, and designed 100+ industry-aligned skill-development courses. His expertise extends to doctoral evaluation, supervision, and active participation on 100+ editorial and review boards worldwide.

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**Ikvinderpal Singh, Sapandeep Kaur Dhillon, Satwinder Pal Singh**

# INTRODUCTION TO PYTHON PROGRAMMING


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|---|---|
| **Author :** | Ikvinderpal Singh, Sapandeep Kaur Dhillon, Satwinder Pal Singh |
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## Product Description

### INTRODUCTION TO PYTHON PROGRAMMING

Python Programming offers a practical and comprehensive introduction to Python, covering core programming concepts, data structures, functions, modules, exception handling, file handling, and object-oriented programming. The book also introduces NumPy and Pandas for numerical computing and data analysis. With clear explanations, solved examples, programming exercises, and real-world applications, it is an ideal resource for undergraduate and postgraduate students, beginners, and self-learners.

### Salient Feature

- Student-friendly and easy-to-understand approach.
- Covers Python fundamentals to intermediate concepts.
- Solved examples, practical programs, and exercises.
- Algorithms and programming logic explained step by step.
- Includes NumPy and Pandas for data analysis.

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Dr. Ikvinderpal Singh is an Assistant Professor at Trai Shatabdi Guru Gobind Singh Khalsa college Amritsar, bringing 17+ years of academic leadership and research experience to the field of computer science. A Gold Medalist in B.Sc. IT, with an MCA (Distinction) and a Ph.D. in Neural Networks and Image Processing, he is known for blending rigorous research with practical innovation. A prolific academic creator, he has authored 37 books, published 82+ research papers, and designed 100+ industry-aligned skill-development courses. His expertise extends to doctoral evaluation, supervision, and active participation on 100+ editorial and review boards worldwide.

**Sapandeep Kaur Dhillon**

Sapandeep Kaur Dhillon is an assistant professor in the department of computer science, Guru Nanak Dev University, Amritsar, bringing 12+ years of dedicated academic experience to the discipline. She has authored 4 books, published 10+ research papers across national and international journals, reflecting her steady engagement with emerging trends in computing. Her academic interests span data structures, Compiler Design, and Artificial Intelligence, where she integrates foundational theory with practical, algorithmic thinking.

**Satwinder Pal Singh**

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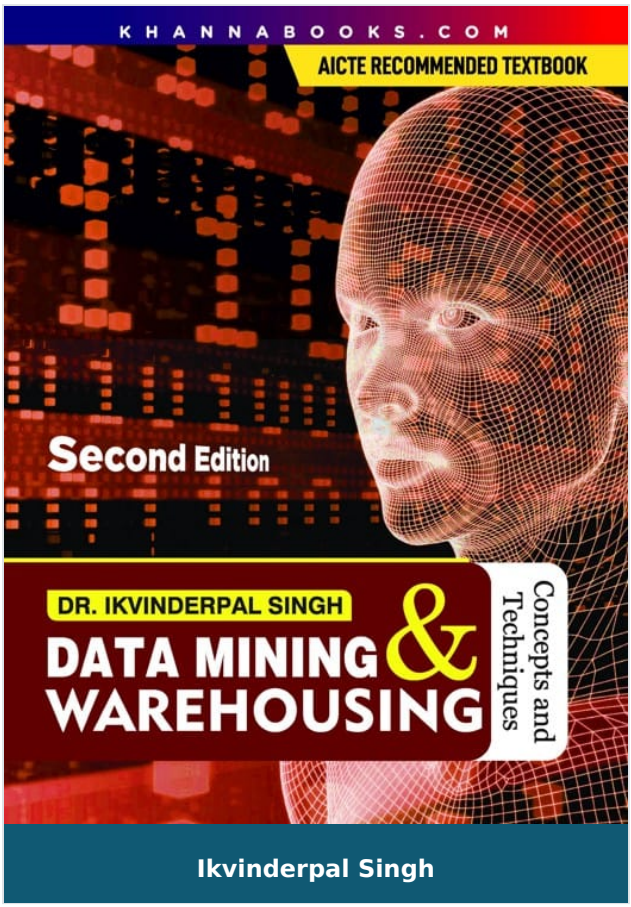


# Data Mining & Warehousing

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## Product Description

This book has numerous features that make it a winner, The order of topics is very logical, The choice of topics is quite appropriate for a comprehensive introductory book. The subject matter is logically structured, with chapters covering essential components of the data mining and warehousing field. The sequence of topics is well planned to provide a seamless transition from design to implementation. Within each chapter, the continuity of topics is excellent. The figures appropriately enhance and amplify the topics. The exercises can be found at the end of each chapter.

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## Table Of Contents


- Data Warehousing
- Multidimensional Data Model
- Data Warehousing Architecture
- Online Analytical Processing
- Data Warehouse Implementation
- Data Warehouse Back-End tools And Utilities
- Data Mining
- Applications And Trends In Data Mining


## Author

**Ikvinderpal Singh**

Dr. Ikvinderpal Singh is an Assistant Professor at Trai Shatabdi Guru Gobind Singh Khalsa college Amritsar, bringing 17+ years of academic leadership and research experience to the field of computer science. A Gold Medalist in B.Sc. IT, with an MCA (Distinction) and a Ph.D. in Neural Networks and Image Processing, he is known for blending rigorous research with practical innovation. A prolific academic creator, he has authored 37 books, published 82+ research papers, and designed 100+ industry-aligned skill-development courses. His expertise extends to doctoral evaluation, supervision, and active participation on 100+ editorial and review boards worldwide.

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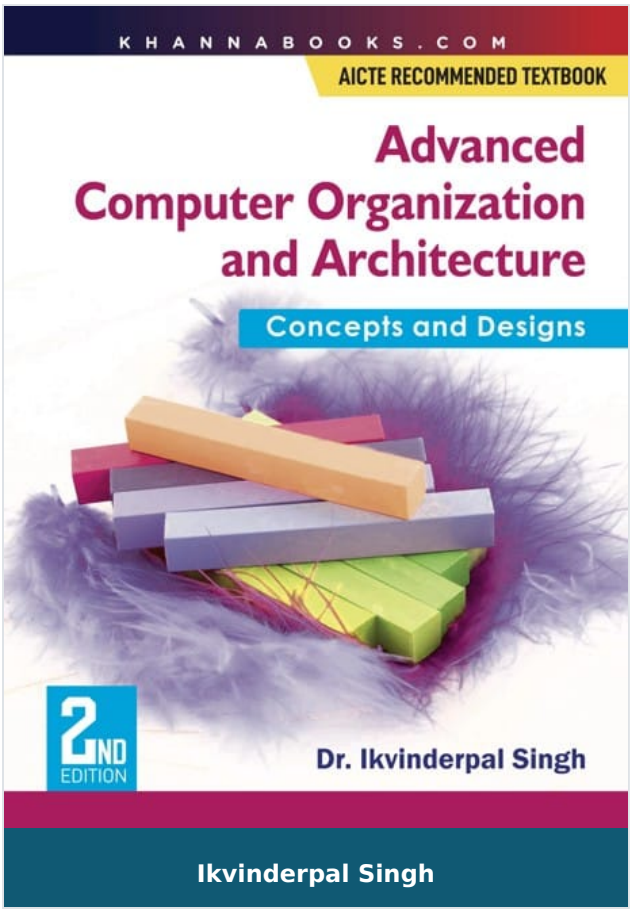


# Advanced Computer Organization & Architecture

| | |
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## Product Description

Describes the introduction of advanced computer architecture and parallel processing. Covers the paradigms of computing like synchronous and asynchronous. Detailed explanation of the Flynn's classification, Kung's taxonomy and reduction paradigm. provides a detailed treatment of abstract parallel computational models like combination circuits, sorting network, PRAM models, interconnection RAMs. Covers the parallelism in uniprocessor systems. Provides an extensive treatment of parallel computer structures like pipeline computers, array computers and multiprocessor systems. Covers the concepts of pipeline and classification of pipeline processors. Give description of super scalar, super pipeline design and VLIW processors. Explains the design structures and algorithms for array processors.

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## Table Of Contents


- Introduction To Advanced Computer Architecture And Parallel Processing
- Paradigms of Computing: Synchronous
- Paradigms of Computing-Asynchronous MIMD
- Abstract Parallel Computational Models
- Parallelism in Uni-processor Systems
- Parallel Computer Structures
- Pipe lining
- Principles of Designing Pipelines Processors
- Super scalar and Super pipeline Design
- Design Structures and Algorithms for Array Processors


## Author

**Ikvinderpal Singh**

Dr. Ikvinderpal Singh is an Assistant Professor at Trai Shatabdi Guru Gobind Singh Khalsa college Amritsar, bringing 17+ years of academic leadership and research experience to the field of computer science. A Gold Medalist in B.Sc. IT, with an MCA (Distinction) and a Ph.D. in Neural Networks and Image Processing, he is known for blending rigorous research with practical innovation. A prolific academic creator, he has authored 37 books, published 82+ research papers, and designed 100+ industry-aligned skill-development courses. His expertise extends to doctoral evaluation, supervision, and active participation on 100+ editorial and review boards worldwide.

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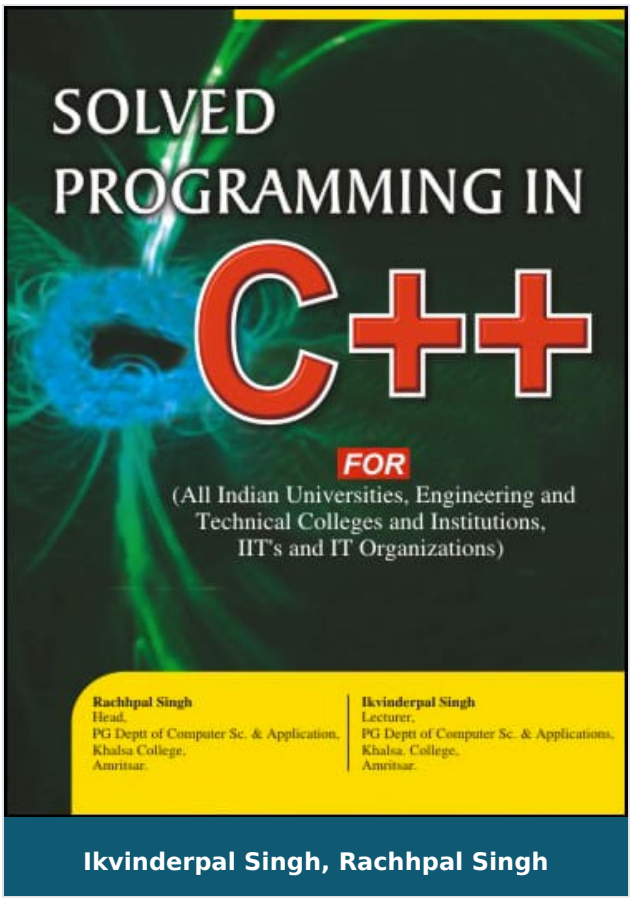


**Ikvinderpal Singh, Rachhpal Singh**

# Solved Programming in C++

| | |
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## Product Description

This book blends concepts with real practical applications. Simple and lucid style trains the reader not only in developing application programs but also familiarizes with system level programming.

Salient Features:

1.Contains about 2200 solved simple as well as complex programming problems. Include real life solved examples.

2. Contains all data types programming descriptions like int array, bool, binary bit, float read, register variables etc.

3. It covers of all functions of cin and cout, cin manipulator, cout boolalpha, cout custom, cout scientific etc.

4. Include Classes , objectives, constructor and destructor with simple programming examples.

5. Each operator is overloaded using simple programs like overloaded unary binary operator, enum, square bracket, custom inserter etc.

6. Detail study of various types of inheritance and also explain polymorphism concept.

7. Each function file of I/O is described using simple programming, functions like binary file, file pointer, istream, ostream, iostream and file IO exception etc.

8. Explore the functions like inline, static, and friend.

9. Some extra features like templates, exception handling, genric programming described using suitable programming examples.

10. Contains implementations of data structures liked list, stack, queue etc.

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## Table Of Contents


- Introduction to C++
- All Data Types
- Development in Cin and Cout
- Control Statements
- Array
- Strings
- Functions
- Pointers
- Structure and Union
- Classes and Objects
- Constructors and Destructors
- Operator Overloading
- Inheritance
- Polymorphism and Virtual Function
- Files
- Exploring Functions (Inline Friend Static)
- Templates
- Exception Handling
- Generic Programming
- Data Structures Using C++


## Author

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**Rachhpal Singh**

Rachhpal Singh is head of P.G. Dept. Computer Science & Applications, Khalsa College, Amritsar which is a premier institute in North India. He obtained his MCA from thapar Institute of Engineering and Technology, patiala. He has over fifteen years of teaching experience to teach post graduate classes. He is an international author of the world level and his other areas of interest include software engineering, parallel processing system level programming.

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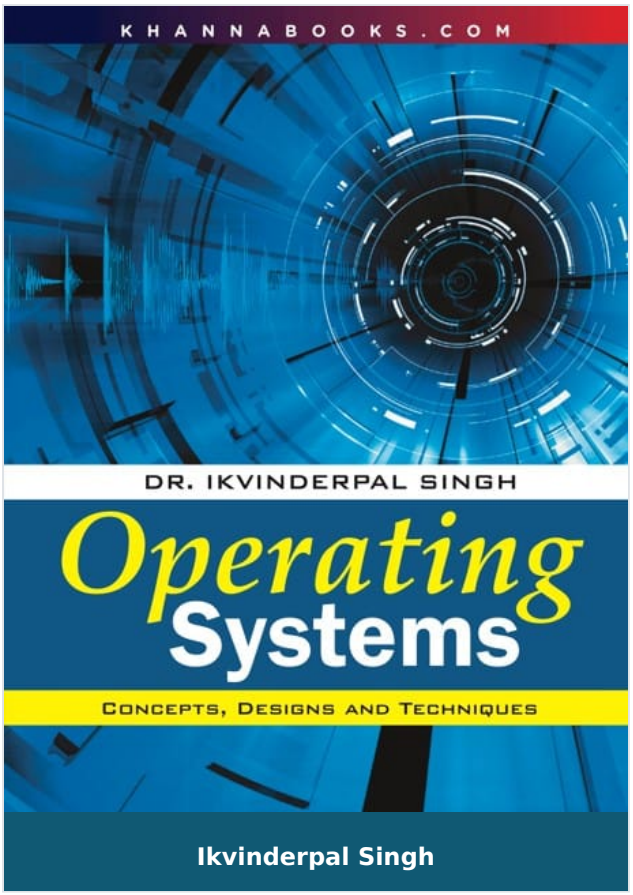


# Operating Systems

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## Product Description

Fundamental concepts are introduced in simple terms, Numerous examples are included to illustrate concepts and techniques. The sequence of topics is well planned to provide a seamless transition from design to implementation. With each chapter, the continuity of topics is excellent. The figures appropriately enhance and amplify the topics. Case studies are organized in a lucid manner. The exercises can be found at the end each chapter. Other sections are devoted to advanced topics, e.g. deadlock characterization, process synchronization and scheduling in multiprocessor systems, file sharing semantics, file system reliability and capabilities.

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## Table Of Contents


- Overview
- Computer System Structures
- Operating System Structures
- Process and Threads
- Process Scheduling
- Process Synchronization
- Deadlocks
- Memory Management
- Virtual Memory
- Input/Output and Device Management
- Disk Management
- File Management
- Protection And Security
- Distributed Systems
- Case Studies Of Unix And Windows NT


## Author

**Ikvinderpal Singh**

Dr. Ikvinderpal Singh is an Assistant Professor at Trai Shatabdi Guru Gobind Singh Khalsa college Amritsar, bringing 17+ years of academic leadership and research experience to the field of computer science. A Gold Medalist in B.Sc. IT, with an MCA (Distinction) and a Ph.D. in Neural Networks and Image Processing, he is known for blending rigorous research with practical innovation. A prolific academic creator, he has authored 37 books, published 82+ research papers, and designed 100+ industry-aligned skill-development

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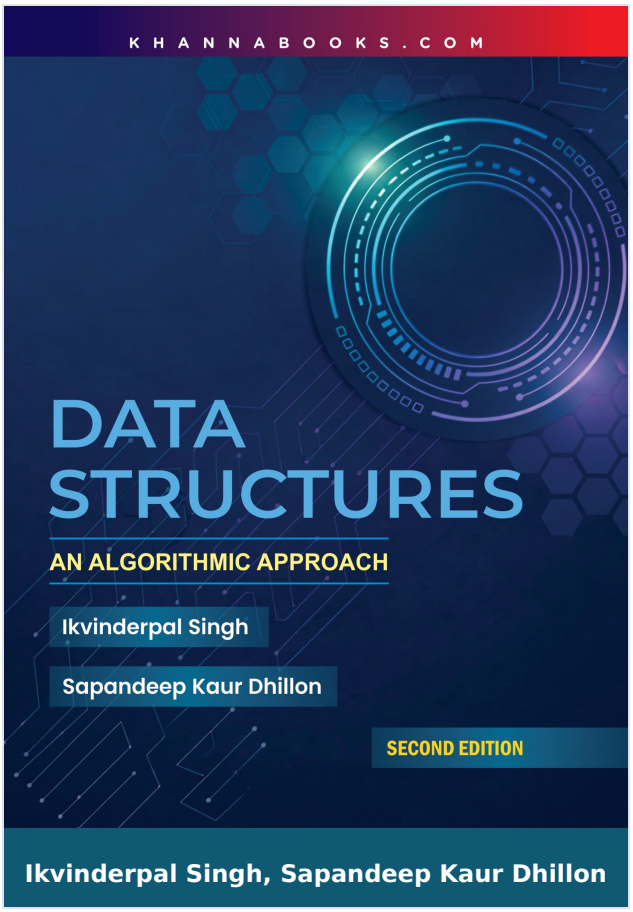


# Data Structures - An Algorithmic Approach

| | |
|---|---|
| **Author :** | Ikvinderpal Singh, Sapandeep Kaur Dhillon |
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## Product Description

Written with the beginner in mind, this book provides an exceptionally clear and precise detail of c++ programming. Its approach is explanatory and language is lucid and communicable. Each and every concept described with the help of its pictorial representation, examples, and solved programming to have clear ideas. Each chapter contains programming problems, objective type questions, and exercises. This book will be useful for student of BE(Computer/Electronics), B. tech, ME(Computer/Electronics), M. Tech, MCA, BCA, M.Sc., B.Sc., and also to students pursuing A/B/C-level Course of DOEACC.

Salient Features

- Each chapter begins with an outline and overview, and a list of learning objectives.
- Extensive coverage of Data structure basics, pictorial representation of each and every data structures is given in detail.
- Demonstrates the development of algorithms in a lucid manner.
- Includes numerous illustrative examples to understand the topic easily.
- Demonstrates the implementation of algorithms in a good programming style.
- Objective-type questions have been provided.
- Around 200 algorithms are included.
- Diagrams are used extensively throughout the text.
- Contains numerous theory questions at the last of each chapter.
- Gives detailed description of arrays, stack and queues in lucid manner.
- Covers all tree structures like binary tree, binary search trees, AVL, B+ tree and red black trees in detail.
- Detailed analysis of each and every sorting and searching technique is covered with the help of programming examples.

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- Presents various hashing techniques like hash functions, linear probing, quadratic probing, double hashing and rehashing.
- Brief introduction to the concept of file and storage management.

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## Table Of Contents


- Introduction to Data Structures
- String Processing
- Algorithm Design and Complexity
- Arrays Pointers and Records
- Linked Lists
- Stacks
- Queues
- Trees
- Search Trees
- Heaps
- Graphs
- Sorting and Searching Techniques
- Hashing
- File and Storage Management


## Author

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Dr. Ikvinderpal Singh is an Assistant Professor at Trai Shatabdi Guru Gobind Singh Khalsa college Amritsar, bringing 17+ years of academic leadership and research experience to the field of computer science. A Gold Medalist in B.Sc. IT, with an MCA (Distinction) and a Ph.D. in Neural Networks and Image Processing, he is known for blending rigorous research with practical innovation. A prolific academic creator, he has authored 37 books, published 82+ research papers, and designed 100+ industry-aligned skill-development courses. His expertise extends to doctoral evaluation, supervision, and active

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**Sapandeep Kaur Dhillon**

Sapandeep Kaur Dhillon is an assistant professor in the department of computer science, Guru Nanak Dev University, Amritsar, bringing 12+ years of dedicated academic experience to the discipline. She has authored 4 books, published 10+ research papers across national and international journals, reflecting her steady engagement with emerging trends in computing. Her academic interests span data structures, Compiler Design, and Artificial Intelligence, where she integrates foundational theory with practical, algorithmic thinking.

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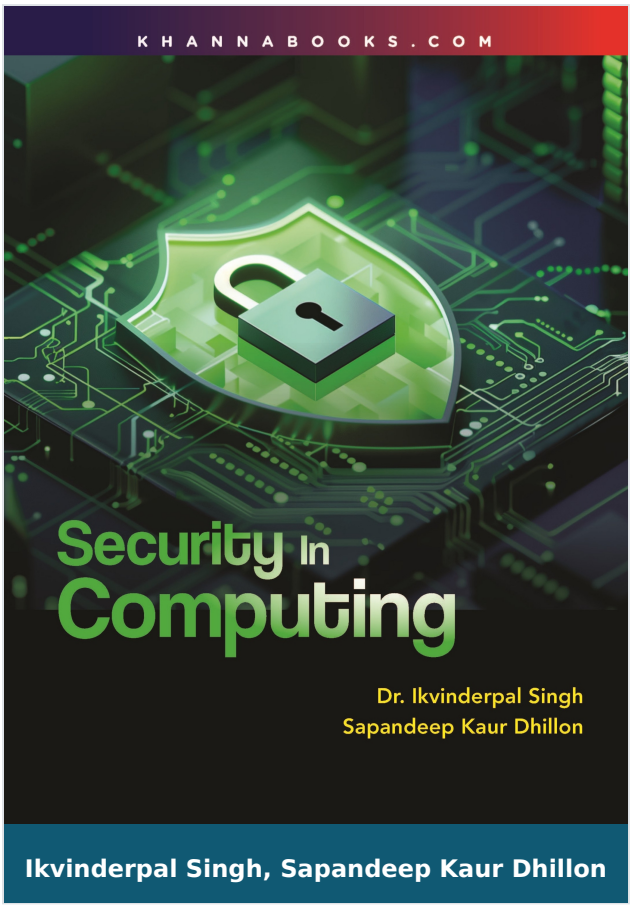


# Security In Computing

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

### Security In Computing

This book provides a systematic study of computing security, covering digital systems, operating systems, network, and databases, it helps readers apply security principles across different layers to protect data and resources from both internal and external threats. The text begins with fundamental concepts like authentication, auditing, and least privilege, while examining modern risks such as identity theft and nation-state adversaries.

Subsequent chapters focus on operating system security, detailing trust models, access control, and verifiable models like Bell-Lapadula and Biba. It also explores secure kernels, virtual machines, and the Android operation system. The network security section addresses DNS vulnerabilities, malware, firewalls, and privacy tools like VPNs and onion routing.

Finally, the book covers database security, including encryption, data masking, and SQL injection detection, supported by a MySQL case study. By emphasizing defense-in-depth and real-world relevance, this work is an essential resource for both academic learning and professional development.

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## Table Of Contents


- Digital systems security and privacy
- Risks in security and privacy
- Operating system security
- Verifiable security goals
- Network security
- Need for physical security
- Database security
- Security features in Databases
- Exercises


## Author


**Ikvinderpal Singh**

Dr. Ikvinderpal Singh is an Assistant Professor at Trai Shatabdi Guru Gobind Singh Khalsa college Amritsar, bringing 17+ years of academic leadership and research experience to the field of computer science. A Gold Medalist in B.Sc. IT, with an MCA (Distinction) and a Ph.D. in Neural Networks and Image Processing, he is known for blending rigorous research with practical innovation. A prolific academic creator, he has authored 37 books, published 82+ research papers, and designed 100+ industry-aligned skill-development courses. His expertise extends to doctoral evaluation, supervision, and active participation on 100+ editorial and review boards worldwide.

**Sapandeep Kaur Dhillon**

Sapandeep Kaur Dhillon is an assistant professor in the department of computer science, Guru Nanak Dev University, Amritsar, bringing 12+ years of dedicated academic experience to the discipline. She has authored 4 books, published 10+ research papers



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across national and international journals, reflecting her steady engagement with emerging trends in computing. Her academic interests span data structures, Compiler Design, and Artificial Intelligence, where she integrates foundational theory with practical, algorithmic thinking.

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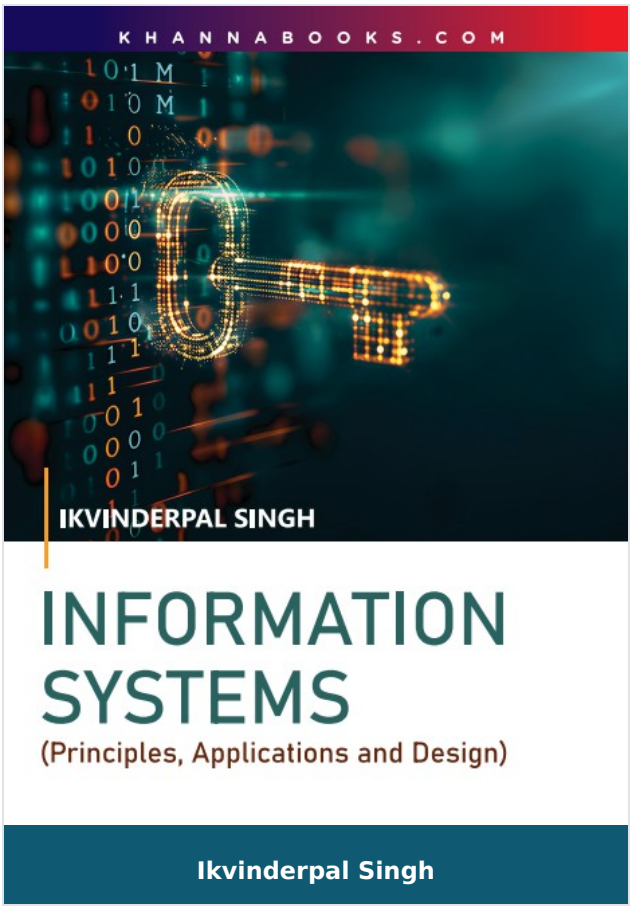


# Information Systems

| | |
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| **Author :** | Ikvinderpal Singh |
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## Product Description

This book discusses all the major areas in information systems with contemporary issues and their effects on business and organization. The main focus in on practical orientation and application of information systems and the emphasis in on real business scenarios. Each chapter provides spotlights on organization, technology or management related to the topics discussed. The book provides a board treatment of the core topics of information systems. Transaction processing systems, Knowledge management systems, Office automation systems, Management Information Systems, (MIS), Decision support systems, Accounting information systems, Inventory control systems, Marketing systems, and also the ethical and social issues involved in information systems.

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## Table Of Contents


- Information Concepts
- Information Capturing And Representation
- System Concepts
- Information Systems
- Technologies For Information Systems
- Transaction Processing Systems
- Knowledge Work And Office Automation Systems
- Management Information Systems
- Decision Support Systems
- Executive Support Systems
- Case Study Of Information Systems


## Author

**Ikvinderpal Singh**

Dr. Ikvinderpal Singh is an Assistant Professor at Trai Shatabdi Guru Gobind Singh Khalsa college Amritsar, bringing 17+ years of academic leadership and research experience to the field of computer science. A Gold Medalist in B.Sc. IT, with an MCA (Distinction) and a Ph.D. in Neural Networks and Image Processing, he is known for blending rigorous research with practical innovation. A prolific academic creator, he has authored 37 books, published 82+ research papers, and designed 100+ industry-aligned skill-development courses. His expertise extends to doctoral evaluation, supervision, and active participation on 100+ editorial and review boards worldwide.

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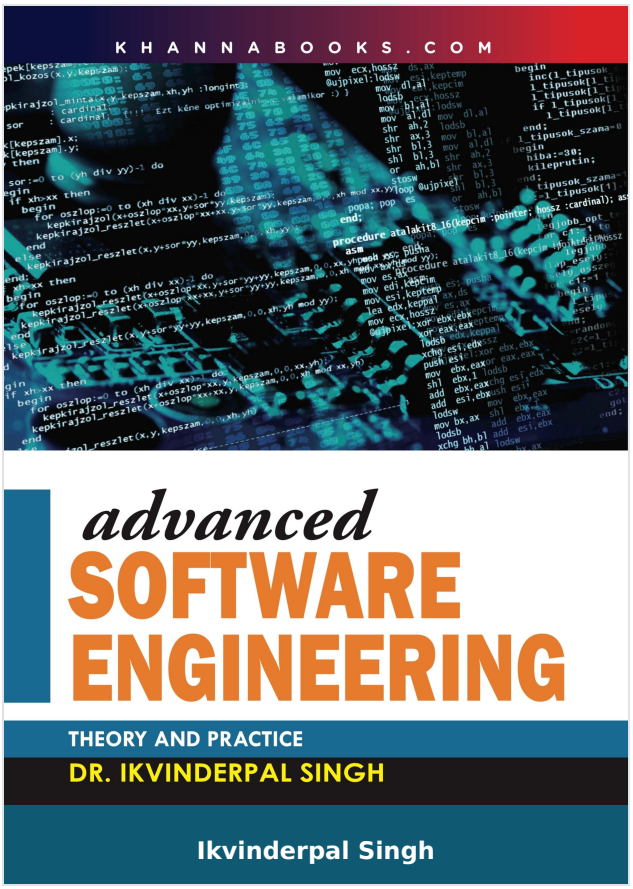


# Advanced Software Engineering

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

Introduction to the software engineering milieu. Describe the software engineering Paradigms. Deals with planning and estimation. Describe the re engineering process. Deals with object oriented metrics. Describes the object-oriented analysis and design. Detailed explanation of software agents.

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- Introduction To Software Engineering
- Software Development Process
- Software Project Management
- Risk Analysis & Management
- Software Configuration Management
- Software Quality
- Software Realiability
- Software Economics
- Software Re engineering
- Software Re engineering Process
- Software Reuse
- Object Oriented Metrics
- Object Oriented Analysis & Design
- Element Of An Object-Oriented Model
- Software Agents
- Application Of Software Agents


## Author

**Ikvinderpal Singh**

Dr. Ikvinderpal Singh is an Assistant Professor at Trai Shatabdi Guru Gobind Singh Khalsa college Amritsar, bringing 17+ years of academic leadership and research experience to the field of computer science. A Gold Medalist in B.Sc. IT, with an MCA (Distinction) and a Ph.D. in Neural Networks and Image Processing, he is known for blending rigorous research with practical innovation. A prolific academic creator, he has authored 37 books,

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published 82+ research papers, and designed 100+ industry-aligned skill-development courses. His expertise extends to doctoral evaluation, supervision, and active participation on 100+ editorial and review boards worldwide.

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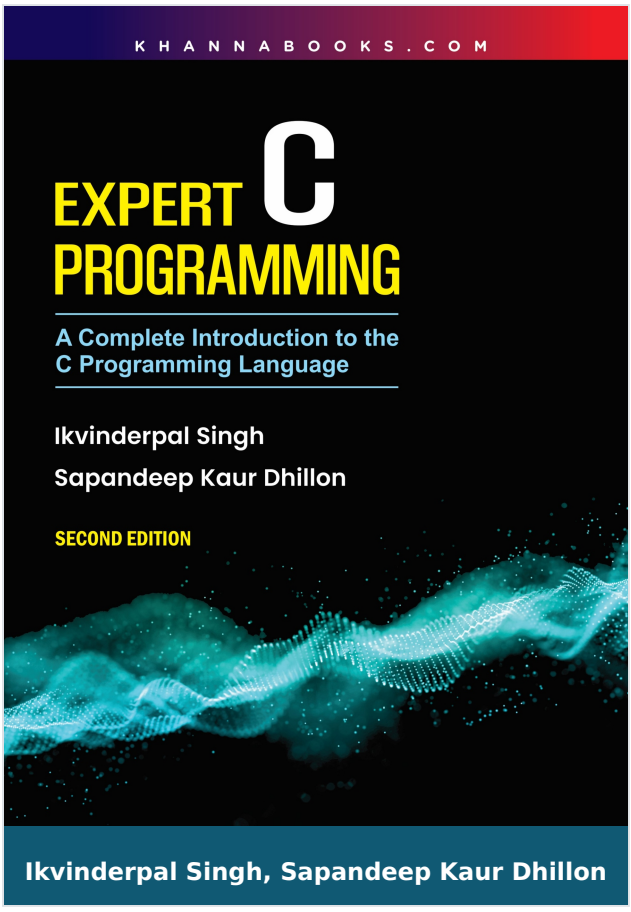


# Expert C Programming

| | |
|---|---|
| **Author :** | Ikvinderpal Singh, Sapandeep Kaur Dhillon |
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## Product Description

Written with the beginner in mind, this book provides an exceptionally clear and precise detail of c++ programming. Its approach is explanatory and language is lucid and communicable. Each and every concept described with the help of its pictorial representation, examples, and solved programming to have clear ideas. Each chapter contains programming problems, objective type questions, and exercises. This book will be useful for student of BE(Computer/Electronics), B. tech, ME(Computer/Electronics), M. Tech, MCA, BCA, M.Sc., B.Sc., and also to students pursuing A/B/C-level Course of DOEACC.

Salient Features

- Brief introduction to computer and programming languages.
- Complete introduction to C programming including basic structure is given in detail.
- Extensive coverage of constants, variables, various data types are given in detail.
- Various types of operators and expressions are described with the help of examples and simple programs.
- Demonstrates the description of console I/o statements in a lucid manner.
- Each and every control statement is described with the help of flowcharts and simple programs.
- Includes numerous illustrative examples to understand the topic easily.
- Demonstrates every program in a good programming style.
- Around 300 objective type questions are included.
- Contains numerous theory exercises at the last of each chapter.
- Gives detailed description of arrays, strings and functions in lucid manner.
- Covers all concepts of pointers like pointer and array, pointer and function, dynamic memory allocation in details.

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- Detailed analysis of each and every storage class is covered with the help of programming examples.
- Detailed description to the concept of structures and unions.
- Presents various file handling operations like open (), close (), seek (), reading and writing a file, working with streams etc.

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- Console Input and Output Statements
- Control Statements
- Arrays
- Strings
- Functions
- Storage Classes
- Pointers
- Structures and Unions
- File Handling
- C Preprocessor and Characters Test Functions


## Author


**Ikvinderpal Singh**

Dr. Ikvinderpal Singh is an Assistant Professor at Trai Shatabdi Guru Gobind Singh Khalsa college Amritsar, bringing 17+ years of academic leadership and research experience to the field of computer science. A Gold Medalist in B.Sc. IT, with an MCA (Distinction) and a Ph.D. in Neural Networks and Image Processing, he is known for blending rigorous research with practical innovation. A prolific academic creator, he has authored 37 books, published 82+ research papers, and designed 100+ industry-aligned skill-development courses. His expertise extends to doctoral evaluation, supervision, and active participation on 100+ editorial and review boards worldwide.

**Sapandeep Kaur Dhillon**



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Sapandeep Kaur Dhillon is an assistant professor in the department of computer science, Guru Nanak Dev University, Amritsar, bringing 12+ years of dedicated academic experience to the discipline. She has authored 4 books, published 10+ research papers across national and international journals, reflecting her steady engagement with emerging trends in computing. Her academic interests span data structures, Compiler Design, and Artificial Intelligence, where she integrates foundational theory with practical, algorithmic thinking.

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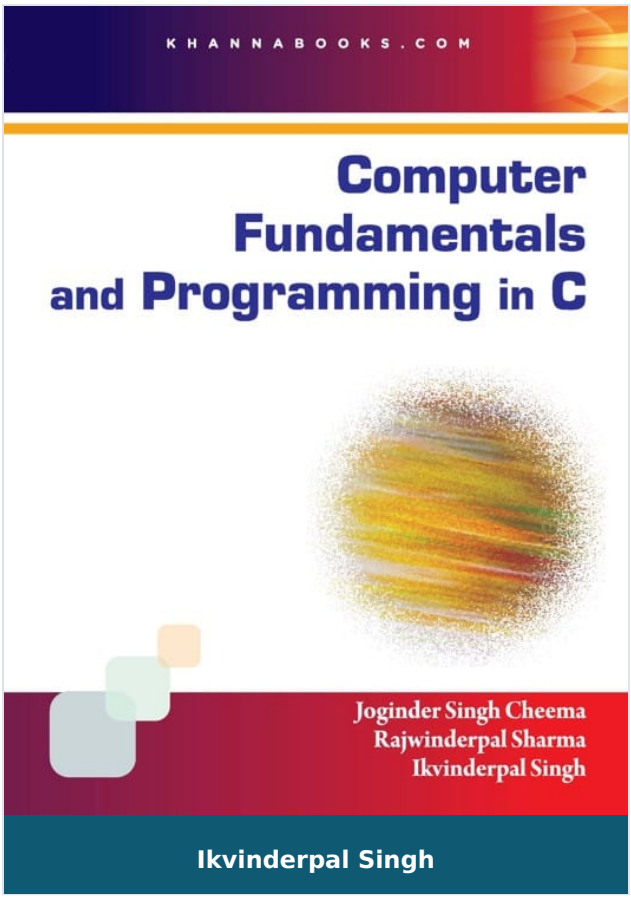


# Computer Fundamentals & Programming in C

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## Product Description

Explains the introduction to computers, history of computer, computer generations, classification of computers and applications of computer in corporate environment. Presents the basic organization of a computer system and its internal working. Describes the concept of number systems, computer codes and arithmetic, logic gates and Boolean algebra. Introduces the concept of primary and secondary storage. Explains the concept of different input and output devices. Presents the concept of computer software's and programming languages. Deals with commonly used various tools for planning the computer program like algorithm, flowcharts, pseudo code and decision tables. Complete introduction to C Programming including basic structure is given in detail. Extensive coverage of constants, variables, various data types are given in detail. Various types of operators and expressions are described with the help of examples and simple programs. Demonstrates the description of console I/O statements in a lucid manner. Each and every control statement is described with the help of flowcharts and simple programs. Includes numerous illustrative examples to understand the topic easily. Demonstrate every program in a good programming style. Around 200 numerous solved C Programs ans 100 objective type questions are included. Contains numerous theory exercises at the last of each chapter. Gives detailed description of arrays, strings and functions in lucid manner. Covers all concepts of pointers like array and pointer, function and pointer, dynamic memory allocation in detail. Detailed analysis of each and every storage class is covered with the help of programming examples. Detailed description to the concept of structures and unions.

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- Arrays
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- Functions
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