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This book provides instruction for using C in an object-oriented fashion. The book covers the problems likely to arise in a C++ application, explains why C++ is inappropriate for some object-oriented applications, and shows how to do real object-oriented programming (based on a multitasking model) in a C or C++ environment. Application development activity is becoming more and

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more complex and tedious day-by-day as the customers' requirements are ever changing. To address their needs, the IT industry is focusing on newer ways of doing things and providing both cost and time advantage to the customers. Therefore, all of you who wish to be in the IT Industry and service the IT customers need to think innovatively and be ready to accept the change. If you have done C, now it is time to move on to C++. C++ is a super set of C language. It provides the C programmers the flavor of Object Orientation. With its object-oriented

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*programm*ing features like encapsulation, inheritance and polymorphism, C++ offers a number of benefits over the C language. The book titled Object-Oriented Programming with C++ is exclusively designed as per the syllabus of III semester B.E. (Computer Science & Engineering and Information Science Engineering) course framed by the Visveswaraiah Technological University, Belgaum. This book is to teach the students object-oriented programming concepts and C++. This book is written in simple and easily understandable style. The

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information provided in the book is also helpful for B.E., B.Sc., BCA, MCA and M.Tech students of all universities. This book contains 14 chapters; each chapter begins with a well-defined set of objectives, discusses the various concepts with the sufficient number of Example Programs, summarizes and ends with exercises and multiple choice questions. The book provides more than 130 C++ programs which are executed on Windows with Turbo C++ compiler and Microsoft Visual C++ 2008 Express Edition. All C-style programs are run on Turbo C++

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IDE and the new-style C++ programs are executed on Microsoft Visual C++ 2008 Express Edition. All programs of chapter 14 are developed and executed on Microsoft Visual C++ 2008 Express Edition. It is important that you will use the right compiler and understand the working of each program. I am more than happy to receive your suggestions and comments for further improvement of the book.

Offering students a tutorial on the basic differences between C and C++, the object model, design methods, and C++ programming, this text includes

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utility classes and case studies, which illustrate object-oriented programming, with all source code included on a disk in the text. The book illustrates concepts behind object-oriented design, going beyond a discussion of the C++ language to give students a deeper knowledge of the benefits of object-oriented programming. An extensive class library developed in the texts examples, which is also available via FTP, allows instructors to add new classes, extend existing ones, and add new student assignments. Adhering to the most current

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draft of the C++ standard it offers a review of function parameters, pointers, arrays and dynamic memory allocation to help students transfer knowledge of C programming to the C++ language and prepare them for C++ enhancements. Object-Oriented Programming in C++ begins with the basic principles of the C++ programming language and systematically introduces increasingly advanced topics while illustrating the OOP methodology. While the structure of this book is similar to that of the previous edition, each chapter reflects the latest

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ANSI C++ standard and the examples have been thoroughly revised to reflect current practices and standards. Educational Supplement Suggested solutions to the programming projects found at the end of each chapter are made available to instructors at recognized educational institutions. This educational supplement can be found at www.prenhall.com, in the Instructor Resource Center. The Waite Group's Object-oriented Programming in C++ Beginning Object-Oriented Programming with C# with Applications in Computer

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Graphics

*C++ and Object-oriented
Programming*

*Mastering Object-Oriented
Programming With C++*

An Indispensable Text On The
Subject, Object-Oriented

Programming With C++ Aims At
Providing A Sound Appreciation Of
The Fundamentals And Syntax Of
The Language As Also Of The
Powerful Concepts And Their
Applicability In Real-Life Problems.

Emphasis Has Been Laid On The
Reusability Of Code In Object-
Oriented Programming And How
The Concepts Of Class, Objects,
Inheritance, Polymorphism, Friend
Functions, And Operator

Overloading Are All Geared To Make The Development And Maintenance Of Applications Easy, Convenient And Economical. Detailed study of the C++ programming language and its support for data abstraction, abstract data types and object-oriented programming. Presents an introduction to the fundamental elements of object-oriented programming including objects, classes, encapsulation, constructors and destructors, function and operator overloading, references, assignment and initialization, container relationships, inheritance, polymorphism, and templates. This Revised Edition Of Object

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Oriented Programming And C++
Has Immense Of Additional
Material Involved For The
Betterment Of The Subject-
Concerned Readers (Students And
Teachers). Two Chapters On
Exception Handling And Template
And Standard Template Library
Have Been Included Keeping In
Mind The Advancement In Oop
Concept. Other 20 Additional
Programs Have Also Been
Incorporated With Outputs For
Enabling The Readers To Test
Them.

Learning Object-Oriented
Programming is an easy-to-follow
guide full of hands-on examples of
solutions to common problems with

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object-oriented code in Python, JavaScript, and C#. It starts by helping you to recognize objects from real-life scenarios and demonstrates that working with them makes it simpler to write code that is easy to understand and reuse. You will learn to protect and hide data with the data encapsulation features of Python, JavaScript, and C#. You will explore how to maximize code reuse by writing code capable of working with objects of different types, and discover the advantage of duck typing in both Python and JavaScript, while you work with interfaces and generics in C#. With a fair understanding of interfaces,

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multiple inheritance, and composition, you will move on to refactor existing code and to organize your source for easy maintenance and extension.

Learning Object-Oriented Programming will help you to make better, stronger, and reusable code.

Object Oriented Programming in C++

Including Object-Oriented Programming in C++

Object-oriented Programming Fundamentals

Object-Oriented Programming With C++

Fundamentals of Computer Programming with C#

Object-Oriented

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Programming (OOP) is the most dramatic and potentially confusing-innovation in software development since the dawn of the computer age. Based on the idea of treating functions and data as objects, OOP results in programs that are more flexible, more easily maintained, and, on the whole, more powerful. Suitable for students, hackers, and enthusiasts, Object-Oriented Programming in Turbo C++ is written by best-selling author

Robert Lafore. Step-by-step lessons teach the Basics of Object-Oriented Programming with Turbo C++ and its new Windows-compatible sibling, Borland C++. Object-Oriented Programming in Turbo C++ focuses on C++ as a separate language, distinct from C, and assumes no prior experience with C. A comprehensive, entertaining guide to learning the techniques of object-oriented programming discusses such topics as input,

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**variables, structures,
loops, arrays, and virtual
functions. Original.**

**Object Oriented
Programming With
C++Vikas Publishing
House**

**A thorough exploration of
the fundamentals of
object-oriented
programming and C++,
this reference shows
novice and experienced
programmers how to
develop classes in C++
and use them as building
blocks for complex
applications. Assuming a
working knowledge of the**

C language, the volume first discusses a subset of C++ so readers can become as comfortable as possible before having to deal with the new syntax.

Object Oriented Programming with C++, 2nd Edition

Object-oriented Programming Using C++ Class Construction in C and C++

Object-Oriented Design and Programming with C++

Object-Oriented Programming in C++

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The C++ Programming Language is one of the popular programming language that support object-oriented programming in addition to procedural programming. All major IT companies are using C++ language as their preferred language in implementing substantial number of projects using object-oriented technology. To fulfill the requirement of these companies, all universities/institutions offering various courses on programming with C++ in their curriculum. This book is designed as a textbook for the students taking these courses. Throughout the book the level of presentation is kept simple and illustrative so that even and average reader can grasp the subject matter with quite ease practically this book will provide you everything you need on object-oriented programming with

Get Free Object Oriented Programming With C By Balagurusamy 5th Edition C++.

This book introduces the art of programming in C++. The topics covered range from simple C++ programmes to programme features such as classes, templates, and namespaces. Emphasis is placed on developing a good programming technique and demonstrating when and how to use the advanced features of C++. This revised and extended second edition includes: the Standard Template Library (STL), a major addition to the ANSI C++ standard; full coverage of all the major topics of C++, such as templates; and practical tools developed for object-oriented computer graphics programming. All code program files and exercises are ANSI C++ compatible and have been compiled on both Borland C++ v5.5 and GNU/Linux g++ v2.91 compilers.

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They are available from the author's web site.

This tutorial presents the sophisticated new features of the most current ANSI/ISO C++ standard as they apply to object-oriented programming. Learn the concepts of object-oriented programming, why they exist, and how to utilize them to create sophisticated and efficient object-oriented applications. This book expects you to be familiar with basic programming concepts. It is no longer enough to understand the syntax and features of the language. You must also be familiar with how these features are put to use. Get up to speed quick on the new concepts of object-oriented design patterns, CRC modeling, and the new Universal Modeling Language (UML), which provides a systematic way to diagram the relationship

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between classes. Object-oriented programming is presented through the use of practical task-oriented examples and figures that help conceptualize and illustrate techniques and approaches, and questions and exercises to reinforce learning concepts.

The first book to help experienced programmers learn object-oriented programming (OOP)--and serve as a convenient reference guide. A tutorial approach explores all the features of C++. With this foundation, the book shows programmers how to expertly apply these techniques to software development.

Programming with Objects in C and C++

Your Hands-On Guide to C++
Programming, with Special Emphasis
on Design, Testing, and Reuse

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Object – oriented programming with
C++

Object-Oriented Programming with
C++

This text offers task-driven tutorials to guide intermediate-level programmers in the planning and creation of object-oriented programs. It is ideal for students who have had one previous C or C++ programming course, but does provide a review of the core C and C++ concepts. The realistic problems encountered in the running case scenario provide motivation for learning each new concept and technique. Each tutorial is divided into two lessons that introduce key concepts, guide students step by step through exercises, and reinforce the information with a summary, review questions, and additional exercises. The book is not written to a specific

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compiler, so students can use whichever compiler they are familiar with to build their programming skills. Each tutorial begins with a programming-related case problem that users can reasonably expect to encounter in business, followed by a demonstration of the applet they will create in the tutorial to solve that problem. Each tutorial is organized into two lessons - A and B - which introduce the concepts and techniques used in the completed application. A review section at the end of each self-contained lesson offers a convenient break point and enables students to test their understanding as they progress through the tutorial. Extensive end-of-chapter questions and hands-on activities reinforce material covered in the chapter; stand-alone programming projects and

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debugging exercises round out the programming skills. Appropriate for students with prior C or C++ programming experience. An overview reviews topics the student should already know.

C Interfaces and Implementations describes how to use interface-based design in the C programming language, and it illustrates this approach by describing 24 interfaces and their implementations in detail. The source code in the book is interleaved with its explanation in an order that best suits understanding the code.

The ideal beginner's guide to C# and object-oriented programming Wrox beginners' guides have the perfect formula for getting programming newcomers up and running. This one introduces beginners to object-

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oriented programming using C# to demonstrate all of the core constructs of this programming framework. Using real-world situations, you'll discover how to create, test, and deliver your programs and how to work with classes, arrays, collections, and all the elements of object-oriented programming. Covers exactly what beginners, even those with no prior programming experience, need to know to understand object-oriented programming and start writing programs in C# Explains the advantages and disadvantages of C#, and tips for understanding C# syntax Explores properties, encapsulation, and classes; value data types; operands and operators; errors and debugging; variables; and reference types Shows how to use statement repetition and program loops,

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understand arrays and collections, and write your own classes Also covers inheritance and polymorphism

Beginning Object-Oriented

Programming with C# uses the tried-and-true Wrox formula for making this popular programming method easy to learn.

This text is an introduction to the complex world of the OOP with C++. It helps you understand the principles and acquire the practical skills of programming using the C++ programming language. Our aim is for you to gain sufficient knowledge and experience to perform simple useful programming tasks using the best up-to-date techniques and so we hope for it to be the easiest book from which you can learn the basics of real-world programming. Our fundamental assumption is that you wish to write

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programs for the use of others; hence, providing a decent level of system quality to achieve a level of professionalism becomes necessary. Consequently, the topics here dealt with is what one shall need in order to get started with real-world programming, and not just what is easy to teach and learn. Rest assured, there shall not be any wastage of ones time with material of marginal practical importance. If an idea is explained here, chances are, its because one is likely to come in need of it. This book emphatically focuses on the syntax of C++. Understanding the fundamental ideas, principles, and techniques is the essence of a good programmer. Only a well-designed code stands any chance of becoming part of a correct, reliable, and maintainable system. Through this book, we hope that you

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will see the absolute necessity of understanding OOP with C++.

Techniques for Creating Reusable Software

Focus on Object-Oriented Programming with C++

An Introduction to Object-Oriented Programming in C++

Object-oriented Programming in Microsoft C++

OBJECT ORIENTED PROGRAMMING WITH C++ WITH EIGHTH EDITION

Object Oriented Programming in C++ Object Oriented Programming is a programming in which we design and develop our application or program based of object. Objects are instances(variables) of class.Object oriented programming does not allow data to flow freely around the system. It binds data more closely to the

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functions that operate on it, and protects it from accidental modifications from outside functions. Object oriented programming allows separation of a complex programs into objects and then builds data and functions around these objects. The data of an object can be accessed only by the functions associated with that object. However, functions of one object can access the functions of other objects. Features of OOP's (Object Oriented Programming) Class: Class is an encapsulation of data and coding. Classes are an expanded version of structures. Structure can contain multiple variables. Classes can contain multiple variables, even more, classes can also contain functions as class member. Variables available in class are called Data Members. Functions available in

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class are called Member Functions.

Object: Class is a user-defined data type and object is a variable of class type. Object is used to access class members.

Inheritance: Inheritance means access the properties and features of one class into another class. The class who is going to provide its features to another class will be called base class and the class who is using the properties and features of another class will be called derived class.

Polymorphism: Polymorphism means more than one function with same name, with different working. It can be static or dynamic. In static polymorphism memory will be allocated at compile time. In dynamic polymorphism memory will be allocated at runtime. Both function overloading and operator overloading are an examples of static

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polymorphism. Virtual function is an example of dynamic polymorphism.

Data Abstraction: The basic idea of data abstraction is to visible only the necessary information, unnecessary information will be hidden from the outside world. This can be done by making class members as private members of class. Private members can be accessed only within the same class where they are declared.

Encapsulation: Encapsulation is a process of wrapping data members and member functions in a single unit called class. Using the method of encapsulation, the programmer cannot directly access the data. Data is only accessible through the object of the class.

In older times, classic procedure-oriented programming was used to solve real-world problems by fitting

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them in a few, predetermined data types. However, with the advent of object-oriented programming, models could be created for real-life systems. With the concept gaining popularity, its field of research and application has also grown to become one of the major disciplines of software development. With Object-Oriented Programming with C++, the authors offer an in- depth view of this concept with the help of C++, right from its origin to real programming level. With a major thrust on control statements, structures and functions, pointers, polymorphism, inheritance and reusability, file and exception handling, and templates, this book is a resourceful cache of programs-bridging the gap between theory and application. To make the book student-friendly, the authors have

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supplemented difficult topics with illustrations and programs. Put forth in a lucid language and simple style to benefit all types of learner, Object-Oriented Programming with C++ is packaged with review questions for self-learning.

Fully revised to reflect the forthcoming ANSI C++ standard and to incorporate coverage of the Standard Template Library, the second edition of this best-seller introduces you to both the C++ programming language and to the object-oriented programming paradigm. Drawing on extensive experience, this expert uses his trademark 'dissections' of example programs to demonstrate the features of C++ and ways build object-oriented programs using C++. Included are coverage of templates and exception handling and examples of how to use

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the `iostream.h` I/O library.

Programmers will also find invaluable the concise C++ language reference provided as an appendix.

We are living in the world that is moving from the asset based economy to knowledge based economy. Our thinking process is changing from local scope to global scope. Programming is not an exception for paradigm shift. It is changing from modules to objects. And now it is your turn for shifting from C to C++. C++ is a super set of C language. It provides the C programmers the flavor of OOPS. With its object-oriented programming features like encapsulation, inheritance and polymorphism, C++ offers a number of benefits over C language. Object-Oriented Programming with C++ is a book also designed as per the syllabus of IV

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semester B.E. (Computer Science & Engineering and Information Science Engineering) course framed by the Visveswaraiah Technological University, Belgaum. This book is to teach the students the object-oriented programming concepts and C++. This book is written in a easy, riveting and readable style. The information provided in the book is helpful for B.E., B.Sc., BCA, MCA and M.Tech students of all universities The book provides around 200 programs to enrich the better understanding of C++. All C++ programming lab assignments are provided in Appendix-A. All the programs have been run and tested on Turbo C++ compiler on MS-DOS. However, some programs hardly countable with fingers are executed on Borland's C++ compiler. These programs are exclusively mentioned

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with the comment -This program is run on Borland's C++.

Object Oriented Programming With C++

Data Abstraction and Object-Oriented Programming in C++

Programming with Objects

Focus on Object-oriented

Programming With C++

Object-Oriented Programming in Turbo C++

The revised edition of Object-Oriented Programming with C++ has become more comprehensive with the inclusion of several topics. Like its previous edition, it provides an in-depth

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coverage of basic, as well as advanced concepts of object-oriented programming such as encapsulation, abstraction, inheritance, polymorphism, dynamic binding, templates, exception handling, streams, and Standard Template Library (STL) and their implementation through C++. Besides, the revised edition includes a chapter on multithreading. The book meets the requirements of students enrolled in

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various courses at undergraduate and postgraduate levels, including BTech, BE, BCA, BSc, MSc, and MCA. It is also useful for software developers who wish to expand their knowledge of C++. New in This Edition • Inclusion of topics like empty class, anonymous objects, recursive constructors and object slicing. • A chapter on multithreading explaining how concurrency is implemented in C++. Key

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Features • *Presentation for easy grasp through chapter objectives, suitable tables, diagrams and programming examples.* • *Notes and key points provided to make the reader self-sufficient.* • *Examination-oriented approach through objective and descriptive questions at the end of each chapter to help students in the preparation for annual and semester tests*
The trend in programming design is moving towards

an object-oriented approach. This is due to many influences in the evolution of software and hardware. As many systems become graphically interfaced and the demand for "easier-to-use" software increases, the program complexity expands dramatically. A solution to the complexity of programs is to develop them using an approach resembling the real-life relationship of objects. The traditional structured approach to

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programming is limited through its treatment of data and actions as distinct entities. By dealing with data and instructions as interwoven items, the ability to develop reusable code is enhanced. Object-oriented programming in C++ requires an understanding of encapsulation of data (classes), polymorphism (overloading), and inheritance of classes. The free book "Fundamentals of

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*Computer Programming
with C#" is a
comprehensive computer
programming tutorial
that teaches
programming, logical
thinking, data
structures and
algorithms, problem
solving and high quality
code with lots of
examples in C#. It
starts with the first
steps in programming and
software development
like variables, data
types, conditional
statements, loops and
arrays and continues*

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with other basic topics like methods, numeral systems, strings and string processing, exceptions, classes and objects. After the basics this fundamental programming book enters into more advanced programming topics like recursion, data structures (lists, trees, hash-tables and graphs), high-quality code, unit testing and refactoring, object-oriented principles (inheritance, abstraction,

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encapsulation and polymorphism) and their implementation the C# language. It also covers fundamental topics that each good developer should know like algorithm design, complexity of algorithms and problem solving. The book uses C# language and Visual Studio to illustrate the programming concepts and explains some C# / .NET specific technologies like lambda expressions, extension methods and LINQ. The book is

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written by a team of
developers lead by
Svetlin Nakov who has
20+ years practical
software development
experience. It teaches
the major programming
concepts and way of
thinking needed to
become a good software
engineer and the C#
language in the
meantime. It is a great
start for anyone who
wants to become a
skillful software
engineer. The books does
not teach technologies
like databases, mobile

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and web development, but shows the true way to master the basics of programming regardless of the languages, technologies and tools. It is good for beginners and intermediate developers who want to put a solid base for a successful career in the software engineering industry. The book is accompanied by free video lessons, presentation slides and mind maps, as well as hundreds of exercises and live examples.

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*arrays, sets,
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combinatorial
algorithms, algorithm
complexity, OOP, object-
oriented programming,
classes, objects,
constructors, fields,
properties, static
members, abstraction,
interfaces,
encapsulation,
inheritance, virtual
methods, polymorphism,
cohesion, coupling,
enumerations, generics,
namespaces, UML, design*

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*patterns, extension
methods, anonymous
types, lambda
expressions, LINQ, code
quality, high-quality
code, high-quality
classes, high-quality
methods, code
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and its support for data
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oriented programming.

*Presents an introduction
to the fundamental
elements of object-
oriented programming
including encapsulation,
classes, inheritance,
polymorphism, templates,
and exceptions.*

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C + C++

Object Oriented

Programming And C++

OBJECT ORIENTED

PROGRAMMING WITH C++

Object-oriented

Programming in C++

Software -- Programming Languages.

Object-Oriented Programming with

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C++ is a paradigm shift in programming, which defines, creates, and manipulates objects to develop reusable software. This book is designed to help students understand the concepts governing OOP and develop a talent in them to choose right the OOP tools for a given problem situation. Dealing at length with the creation and manipulation of OOP components using C++, Object-Oriented Programming with C++ uses examples that reflect current practices and standards to provide a hands-on experience to budding software engineers.

C++ is a general purpose programming language that, in addition to systems applications, is extensively used for scientific computation, financial applications, embedded systems, realtime control, and other

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applications. Emphasizing the commonality between C++ and Java as object oriented languages, this text prepares the reader to program with objects.

This book provides software professionals with in-depth coverage of the object-oriented paradigm, as well as the technology involved in its implementation. This book explains why object-oriented programming can vastly improve programmers' productivity and shows how to apply object-oriented analysis, design and programming in a practical environment. Many programming examples are provided, and special attention is given to how different programming languages support the core of object-oriented concepts. All programming examples have been updated to reflect the latest ANSI C++

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standard; all definitions and terminology updated to reflect the Object Management Group standard object model; additional coverage of encapsulation features of ANSI C++; updated to reflect current versions of Smalltalk, Eiffel, and ObjectPascal; updated coverage of commonly available class libraries; expanded coverage of object-oriented database design; expanded coverage of object-oriented analysis and design; and includes one floppy disk, containing source code for all of the programming examples in the book.

*C Interfaces and Implementations
Object-Oriented Programming Using
C++
Programming Series Seventh Edition
Object-oriented Programming with C++
C++ Object Oriented Programming &
Features of OOP's*

Object-Oriented Design and Programming with C++: Your Hands-On Guide to C++ Programming, with Special Emphasis on Design, Testing, and Reuse provides a list of software engineering principles to guide the software development process. This book presents the fundamentals of the C++ language. Organized into two parts encompassing 10 chapters, this book begins with an overview of C++ and describes object-oriented programming and the history of C++. This text

then introduces classes, polymorphism, inheritance, and overloading. Other chapters consider the C++ preprocessor and organization of class libraries. This book discusses as well the scope rules, separate compilation, class libraries, and their organization, exceptions, browsers, and exception handling. The final chapter deals with the design of a moderately complex system that provides file system stimulation. This book is a valuable resource for readers who are reasonably

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familiar with the C programming language and want to understand the issues in object-oriented programming using C++. This step-by-step tutorial teaches you all language features and explains their practical usage. Josuttis goes well beyond the basics, demonstrating how to combine templates with object-oriented programming to produce the power of modern C++ development for high performance programs.

***Comprehensive, detailed, readable, practical and up-to-**

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get the power from C++,
using the current ANSI
language standard and
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*Specific hints from the
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