

*Updated for C++ 20*



# Discovering Modern C++

*An Intensive Course for Scientists, Engineers,  
and Programmers*

**Peter Gottschling**

SECOND EDITION



C++ In-Depth Series    Bjarne Stroustrup

# Discovering Modern C An Intensive Course For Scientists Engineers And Programmers C In Depth

**Richard Johnsonbaugh**



## **Discovering Modern C An Intensive Course For Scientists Engineers And Programmers C In Depth :**

**Discovering Modern C++** Peter Gottschling, 2015-12-23 As scientific and engineering projects grow larger and more complex it is increasingly likely that those projects will be written in C With embedded hardware growing more powerful much of its software is moving to C too Mastering C gives you strong skills for programming at nearly every level from close to the hardware to the highest level abstractions In short C is a language that scientific and technical practitioners need to know Peter Gottschling s Discovering Modern C is an intensive introduction that guides you smoothly to sophisticated approaches based on advanced features Gottschling introduces key concepts using examples from many technical problem domains drawing on his extensive experience training professionals and teaching C to students of physics math and engineering This book is designed to help you get started rapidly and then master increasingly robust features from lambdas to expression templates You ll also learn how to take advantage of the powerful libraries available to C programmers both the Standard Template Library STL and scientific libraries for arithmetic linear algebra differential equations and graphs Throughout Gottschling demonstrates how to write clear and expressive software using object orientation generics metaprogramming and procedural techniques By the time you re finished you ll have mastered all the abstractions you need to write C programs with exceptional quality and performance

**Discovering Modern C++** Peter Gottschling, 2016 As scientific and engineering projects grow larger and more complex it is increasingly likely that those projects will be written in C Mastering C gives you strong skills for programming at nearly every level from close to the hardware to the highest level abstractions Peter Gottschling s Discovering Modern C is an intensive introduction that guides you smoothly to sophisticated approaches based on advanced features

**C IN Depth** S.k Srivastava/Deepali Srivastava, 2018-06-06 Description The Book explains each topic in depth without compromising the lucidity of the text and programs This approach makes this book suitable for both novices and advanced programmers the well structured programs are easily understandable by the beginners and useful for the experienced programmers The book can be used as tool for self study as it provides step by step explanation and comes with solutions of all exercises It explains all the basic concepts and doesn t assume that you know how to program New features in the 3rd edition include a chapter on Recursion through explanation of Bitwise Manipulation new and improved programming examples lots of new exercises ranging in difficulty solutions to all the exercises and a CD that includes the code of all the programming examples and exercises The book contains about 310 well explained programming examples to drive the concepts home and nearly 450 exercises which include many interesting and challenging programming exercises that will help you to sharpen your programming skill The chapter on project development and library creation can help students in implementing their knowledge Table Of Contents Chapter 1 Introduction Chapter 2 Elements of C Chapter 3 Input Output in C Chapter 4 Operators and Expressions Chapter 5 Control Statements Chapter 6 Functions Chapter 7 Recursion Chapter 8 Arrays Chapter 9 Pointers Chapter 10 Strings Chapter 11 Structure and Union Chapter 12 Files Chapter 13

The C Preprocessor Chapter 14 Operations on Bits Chapter 15 Miscellaneous Features Chapter 16 Building Project and Creation of Library Chapter 17 Code Optimization in C Chapter 18 C and Assembly Interaction Chapter 19 Library Functions Solutions

Essential C P. K. Andersen, G. Bjedov, M. G. Scarbrough, 1994-02 In recent years C has become the programming language most often chosen by serious programmers those who program for a living C's rich set of operators and library functions allows programmers to write powerful concise and elegant code Furthermore C compilers exist for virtually every type of computer and C programs are portable between different types of computers Perhaps the main advantage of C over other programming languages is its versatility On the one hand C is a powerful general purpose language that supports structured and modular programming languages but at the same time it provides access to lower level facilities that most other languages hide from the programmer Essential C is intended for students who have had no prior programming experience Providing a simple and brief introduction to programming in C makes this text suitable for a first semester freshman level course Only the basics a student needs to understand and write useful C programs are presented and explanations using computer jargon are avoided Examples are referred to whenever possible The topics have been carefully chosen for their relevance to practical scientific and engineering programming Although the text is written with the scientific and engineering students in mind it should be suitable in other disciplines as well

*Modern C* Jens Gustedt, 2019-11-26 Summary Modern C focuses on the new and unique features of modern C programming The book is based on the latest C standards and offers an up to date perspective on this tried and true language About the technology C is extraordinarily modern for a 50 year old programming language Whether you're writing embedded code low level system routines or high performance applications C is up to the challenge This unique book based on the latest C standards exposes a modern perspective of this tried and true language About the book Modern C introduces you to modern day C programming emphasizing the unique and new features of this powerful language For new C coders it starts with fundamentals like structure grammar compilation and execution From there you'll advance to control structures data types operators and functions as you gain a deeper understanding of what's happening under the hood In the final chapters you'll explore performance considerations reentrancy atomicity threads and type generic programming You'll code as you go with concept reinforcing exercises and skill honing challenges along the way What's inside Operators and functions Pointers threading and atomicity C's memory model Hands on exercises About the reader For programmers comfortable writing simple programs in a language like Java Python Ruby C# or C About the author Jens Gustedt is a senior scientist at the French National Institute for Computer Science and Control INRIA and co editor of the ISO C standard

**C Programming for Scientists and Engineers with Applications** Rama Reddy, Carol Ziegler, 2009-08-17 C is a favored and widely used programming language particularly within the fields of science and engineering C Programming for Scientists and Engineers with Applications guides readers through the fundamental as well as the advanced concepts of the C programming language

as it applies to solving engineering and scientific problems Ideal for readers with no prior programming experience this text provides numerous sample problems and their solutions in the areas of mechanical engineering electrical engineering heat transfer fluid mechanics physics chemistry and more It begins with a chapter focused on the basic terminology relating to hardware software problem definition and solution From there readers are quickly brought into the key elements of C and will be writing their own code upon completion of Chapter 2 Concepts are then gradually built upon using a strong structured approach with syntax and semantics presented in an easy to understand sentence format Readers will find C Programming for Scientists and Engineers with Applications to be an engaging user friendly introduction to this popular language

C For Engineers & Scientists, An Interpretive Approach with Companion CD Harry Cheng, 2009-03-13 C for Engineers and Scientists is a complete and authoritative introduction to computer programming in C with introductions to object oriented programming in C and graphical plotting and numerical computing in C C interpreter Ch and MATLAB for applications in engineering and science This book is designed to teach students how to solve engineering and science problems using C It teaches beginners with no previous programming experience the underlying working principles of scientific computing and a disciplined approach for software development All the major features of C89 and C99 are presented with numerous engineering application examples derived from production code The book reveals the coding techniques used by the best C programmers and shows how experts solve problems in C It is also an invaluable resource and reference book for seasoned programmers C for Engineers and Scientists focuses on systematic software design approach in C for applications in engineering and science following the C99 the latest standard developed by the ANSI and ISO C Standard Committees which resolved many deficiencies of C89 for applications in engineering and science The book includes a companion CD which contains the C C interpreter Ch for use as an instructional tool as well as Visual C and gcc g compilers to help teaching and learning of C and C Ch presents a pedagogically effective user friendly interactive computing environment for the simplest possible teaching learning computer programming in C so that the students can focus on improving their program design and problem solving skills

**A First Course in Programming with C** Jeyapoovan T., 2004-07-01 C is a popular programming language which is commonly used by scientists and engineers to write programs for any specific application C is also a widely accepted programming language in the software industries This beginner s guide to computer programming is for student programmers to effectively write programs for solving numerical problems All that is required of a beginner programmer is not experience in computing but interest in computing The programs illustrated in the book have been accumulated experimented and tested by the author during his teaching of the subject to a few thousand students in over a decade In addition numerous problems are adapted from university question papers Short questions and answers and objective questions are an added feature All these would build confidence of the students and those appearing for interview viva voce in a practical lab The special topic of the book is C graphics and animation which

helps students develop simple programs to generate geometrical and graphical objects      **C Programming for Beginners** Icode Academy,2017-07-04 C was written to help professional C developers learn modern C programming The aim of this book is to leverage your existing C knowledge in order to expand your skills Whether you need to use C in an upcoming project or simply want to learn a new language or reacquaint yourself with it this book will help you learn all of the fundamental pieces of C so you can begin writing your own C programs This updated and expanded second edition of Book provides a user friendly introduction to the subject Taking a clear structural framework it guides the reader through the subject s core elements A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts This succinct and enlightening overview is a required reading for all those interested in the subject We hope you find this book useful in shaping your future career Business      C for Engineers and Scientists Harry H. Cheng,2010 This book focuses on systematic software design approach in C for applications in engineering and science following the latest standard developed by the ANSI C ISO C Standard Committees called C99      **C Programming: The Essentials for Engineers and Scientists** David R. Brooks,2012-12-06 1 The Purpose of This Text This text has been written in response to two trends that have gained considerable momentum over the past few years The first is the decision by many undergraduate engineering and science departments to abandon the traditional programming course based on the aging Fortran 77 standard This decision is not surprising considering the more modern features found in languages such as Pascal and C However Pascal never developed a strong following in scientific computing and its use is in decline The new Fortran 90 standard defines a powerful modern language but this long overdue redesign of Fortran has come too late to prevent many colleges and universities from switching to C The acceptance of C by scientists and engineers is based perhaps as much on their perceptions of C as an important language which it certainly is and on C programming experience as a highly marketable skill as it is on the suitability of C for scientific computation For whatever reason C or its derivative C is now widely taught as the first and often only programming language for undergraduates in science and engineering The second trend is the evolving nature of the undergraduate engineering curriculum At a growing number of institutions the traditional approach of stressing theory and mathematics fundamentals in the early undergraduate years and postponing real engineering applications until later in the curriculum has been turned upside down      **Effective C** Robert C. Seacord,2020-08-04 A detailed introduction to the C programming language for experienced programmers The world runs on code written in the C programming language yet most schools begin the curriculum with Python or Java Effective C bridges this gap and brings C into the modern era covering the modern C17 Standard as well as potential C2x features With the aid of this instant classic you ll soon be writing professional portable and secure C programs to power robust systems and solve real world problems Robert C Seacord introduces C and the C Standard Library while addressing best practices common errors and open debates in the C community Developed together with other C Standards committee

experts Effective C will teach you how to debug test and analyze C programs You ll benefit from Seacord s concise explanations of C language constructs and behaviors and from his 40 years of coding experience You ll learn How to identify and handle undefined behavior in a C program The range and representations of integers and floating point values How dynamic memory allocation works and how to use nonstandard functions How to use character encodings and types How to perform I O with terminals and filesystems using C Standard streams and POSIX file descriptors How to understand the C compiler s translation phases and the role of the preprocessor How to test debug and analyze C programs Effective C will teach you how to write professional secure and portable C code that will stand the test of time and help strengthen the foundation of the computing world     *Effective C, 2nd Edition* Robert C. Seacord,2024-10-29 Effective C 2nd edition is an introduction to essential C language programming that will soon have you writing programs solving problems and building working systems The latest release of the C programming language C23 enhances the safety security and usability of the language This second edition of Effective C has been thoroughly updated to cover C23 offering a modern introduction to C that will teach you best practices for writing professional effective and secure programs that solve real world problems Effective C is a true product of the C community Robert C Seacord a long standing member of the C standards committee with over 40 years of programming experience developed the book in collaboration with other C experts such as Clang s lead maintainer Aaron Ballman and C project editor JeanHeyd Meneide Thanks to the efforts of this expert group you ll learn how to Develop professional C code that is fast robust and secure Use objects functions and types effectively Safely and correctly use integers and floating point types Manage dynamic memory allocation Use strings and character types efficiently Perform I O operations using C standard streams and POSIX file descriptors Make effective use of C s preprocessor Debug test and analyze C programs The world runs on code written in C Effective C will show you how to get the most out of the language and build robust programs that stand the test of time New to this edition This edition has been extensively rewritten to align with modern C23 programming practices and leverage the latest C23 features Updated to cover C23     C for Engineers and Scientists Gary J. Bronson,1992 This text introduces the C programming language using a range of engineering and science applications in the examples and exercises The book assumes no programming experience and is suitable for an introduction to programming course using C instead of Fortran or Pascal Structured programming principles are introduced early and used throughout The text includes clear explanations and many example programs using ANSI C show C as a powerful tool in engineering and science applications It also includes exercises after each section common programming error sections and chapter summaries     **C for Scientists and Engineers** Richard Johnsonbaugh,1999-04-30 This book based on the best seller APPLICATIONS PROGRAMMING IN ANSI C includes one of the clearest introductions to C programming available and assumes no prior programming knowledge Their new book reflects the clear presentation and excellent examples and programming exercises for which the authors have become well known Includes nearly 300 numbered examples which show

the purpose of various C features and explains how to use C in a wide range of environments Common programming error sections highlight easily misunderstood aspects of the C language Of interest to engineers and scientists C Programming Language Darrel L. Graham, 2017-07-04 C was written to help professional C developers learn modern C programming The aim of this book is to leverage your existing C knowledge in order to expand your skills Whether you need to use C in an upcoming project or simply want to learn a new language or reacquaint yourself with it this book will help you learn all of the fundamental pieces of C so you can begin writing your own C programs This updated and expanded second edition of Book provides a user friendly introduction to the subject Taking a clear structural framework it guides the reader through the subject's core elements A flowing writing style combines with the use of illustrations and diagrams throughout the text to ensure the reader understands even the most complex of concepts This succinct and enlightening overview is a required reading for all those interested in the subject We hope you find this book useful in shaping your future career Business C Programming for Scientists and Engineers with Applications Rama N. Reddy and Carol A. Ziegler, 2010-06 About the Book C is a favored and widely used programming language particularly within the fields of science and engineering C Programming Scientists and Engineers with Applications guides readers through the fundamental as well as the advanced concepts of the C programming language as it applies to solving engineering and scientific problems Ideal for readers with no prior programming experience this text provides numerous sample problems and their solutions in the areas of mechanical engineering electrical engineering heat transfer fluid mechanics physics chemistry and more It begins with a chapter focused on the basic terminology relating to hardware software and problem definition and solution From there readers are quickly brought into the key elements of C and will be writing their own code upon completion of Chapter 2 Concepts are then gradually built upon using a strong structured approach with syntax and semantics presented in an easy to understand sentence format Readers will find C programming for Scientists and Engineers with Applications to be an engaging user friendly introduction to this popular language Key features include Complete solutions with documentation code input and output are included at the end of each chapter and have been thoroughly run and tested Pointers and dynamic pointers are presented in depth with sample code and complete end of chapter solutions Input and output are presented in several ways including standard input output and file input output Provides an early introduction of modular programming concepts and functions Instructor's resources include an instructor's manual with solutions to all review and end of chapter exercises

**Learn and Master C Programming For Absolute Beginners!** Mohammad El-Haj, 2017 C PROGRAMMING FOR BEGINNERS WITH OVER 50 EASY TO FOLLOW HANDS ON PROJECTS USING VISUAL STUDIO About This Video Mastery of C programming including advanced as well as complex parts Mastery of Visual Studio on Windows for C C programmers Source Code Examples Tons of hands on practice Help and support with Q as well as Visual Basic This course will help you learn and master C language and become a professional programmer on your own pace by watching me as I introduce you to

the concepts and fundamentals of programming and writing efficient code in C with easy to follow lectures that are full of hands on practices and coding During this course I will share with you the tips and tricks of the trade that I learned throughout my 20 years of professional career as a software engineer I will teach you C language and programming from the ground up as I assume you have no prior programming experience I have included sections for people who have never programmed before but for those who are already programming they can either watch them refresh on some fundamentals or simply chose to skip them altogether If you want to become a professional software developer then search no more you have found the right course      **Modern C for Absolute Beginners** Slobodan Dmitrović,2024-04-23 Learn the basics of C the C standard library and modern C standards Complete with modern up to date examples and screenshots this new edition is fully updated and reworked with the latest C23 standards and features C is a language that is as popular today as it was decades ago It can be used to program a microcontroller or to develop an entire operating system Author Slobodan Dmitrovi takes you on a journey through the C programming language the standard library and the C standards basics Each chapter is the right balance of theory and code examples Written in a concise and easy to follow manner this book will provide you all the essentials needed to start programming in modern C What You Will Learn Understand C programming language and C standard library fundamentals Work with new C standards features Study the basics of types operators statements arrays functions and structs Review the fundamentals of pointers memory allocation and memory manipulation Take advantage of best practices in C Who This Book Is For Beginner or novice programmers who wish to learn the C programming language No prior programming experience is required      C for Scientists and Engineers Richard Johnsonbaugh,Martin Kalin,1996-12 Offering an introduction to C programming this work assumes no prior knowledge The authors teach the power and flexibility of C through applications that should be of particular interest to engineers and scientists

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