

# C Programming For Engineering And Computer Science Best Series

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**Interfacing with C++** - Jayantha Katupitiya 2006-05-14  
Learn to write C++ programs by interfacing a computer to a wide range of popular and fundamental real-world technologies. Unique and original approach to use the PC to do real things- not just number crunching and graphics - but writing programs to interact with the outside world. Learn C++ programming in an enjoyable and powerful way. Includes a purpose-designed circuit board  
**An Introduction to HTML and JavaScript** - David R. Brooks 2007-06-30

Dual-use technological writing at its best. This book presents HTML and JavaScript in a way that uniquely meets the needs of students in both engineering and the sciences. The author shows how to create simple client-side applications for scientific and engineering calculations. Complete HTML/JavaScript examples with science/engineering applications are used throughout to guide the reader comprehensively through the subject. The book gives the reader a sufficient understanding of HTML and JavaScript to write their online applications. This book emphasises basic programming principles in a modern Web-oriented environment, making it suitable for an introductory programming course for non-computer science majors. It is also ideal for self-study.

**C Programming Language** - Brian W. Kernighan 1988-03-22  
This ebook is the first authorized digital version of Kernighan and Ritchie's 1988 classic, *The C Programming Language* (2nd Ed.). One of the best-selling programming books published in the last fifty years, "K&R" has been called everything from the "bible" to "a landmark in computer science" and it has influenced generations of programmers. Available now for all leading ebook platforms, this concise and beautifully written text is a "must-have" reference for every serious programmer's digital library. As modestly described by the authors in the Preface to the First Edition, this "is not an introductory programming manual; it assumes some familiarity with basic programming concepts like variables, assignment statements, loops, and functions. Nonetheless, a novice programmer should be able to read along and pick up the language, although access to a more knowledgeable colleague will help."

**Programming in C** - Satya Prakash 2015-12-30  
This book will help students learn the C programming language, allowing them to learn how to build their own programming language, a minimal LISP in fewer than 1000 lines of code. The concepts of the C programming language are used in almost all engineering disciplines. This textbook is essential for students to grasp the basics of the language.

**C and Data Structures** - Venkateswarlu N.B. & Prasad E.V.  
A Snap Shot Oriented Treatise with Live Engineering Examples. Each chapter is is supplemented with concept oriented questions with answers and explanations. Some practical life problems from Education, business are included.

**Programming Abstractions in C** - Eric Roberts 1997  
Highlights \*This book introduces several library packages to simplify the programming process, making it possible for students to concentrate on high-level conceptual issues without being distracted by the complexities of C. \*It contains an extensive discussion of recursion, including a large number of sample programs and exercises that range in difficulty from simple recursive functions to the minimax strategy for analyzing two-player games. \*It emphasizes the practical skills necessary to write solid, reusable code.

**Computer Fundamentals and Programming in C** - Pradip Dey 2013-07-04

Computer Fundamentals and Programming in C 2e is designed to serve as a textbook for students of engineering (BE/B Tech), computer applications (BCA/MCA), and computer science (BSc) for an

introductory core course on computers and programming in C.

**The Art and Craft of Computing** - Stefano Ceri 1998  
Gives students a firm rooting in the fundamental principles of computer science, and an appreciation of the correlation between those principles and an introduction to programming. Maintains strong coverage of the topics taught in the traditional introductory courses including algorithms and basic elements of programming languages and then goes further to introduce higher level topics such as the structures of operating systems, databases and productivity tools.

**C Programming for Juniors** - S. Anandamurugan 2014  
This is a comprehensive textbook for teaching and learning C Programming language. Assuming no prior knowledge of programming languages on the part of the reader, this book contains a rich collection of solved examples and exercises to help one master the C programming language

**Programming for Chemical Engineers Using C, C++, and MATLAB?** - Raul Raymond Kapuno 2008  
Designed for chemical engineering students and industry professionals, this book shows how to write reusable computer programs. Written in the three languages (C, C++, and MATLAB), it is accompanied by a CD-ROM featuring source code, executables, figures, and simulations. It also explains each program in detail.  
**Problem Solving and Program Design in C** - Jeri R. Hanly 2013

[The book] teaches a disciplined approach to problem solving, applying widely accepted software engineering methods to design program solutions as cohesive, readable, reusable modules. We present as an implementation vehicle for these modules a subset of ANSI C - a standardized, industrial-strength programming language known for iets power and portability. This text can be used for a first course in programming methods: It assumes no prior knowledge of computers or programming. The text's broad selection of case studies and exercises allows an instructor to design an introductory programming course in C for computer science majors or for students from a wide range of other disciplines. [authors' note]

**Programming Projects in C for Students of Engineering, Science, and Mathematics** - Rouben Rostamian 2014-09-03  
Like a pianist who practices from a book of Etudes, readers of *Programming Projects in C for Students of Engineering, Science, and Mathematics* will learn by doing. Written as a tutorial on how to think about, organize, and implement programs in scientific computing, this book achieves its goal through an eclectic and wide-ranging collection of projects. Each project presents a problem and an algorithm for solving it. The reader is guided through implementing the algorithm in C and compiling and testing the results. It is not necessary to carry out the projects in sequential order. The projects?contain suggested algorithms and partially completed programs for implementing them to enable the reader to exercise and develop skills in scientific computing;?require only a working knowledge of undergraduate multivariable calculus, differential equations, and linear algebra; and?are written in platform-independent standard C, and the Unix command-line is used to illustrate compilation and execution. The primary audience of this book is graduate students in mathematics, engineering, and the sciences. The book will also be of interest to advanced undergraduates and working professionals who wish to exercise and hone their skills in programming mathematical algorithms in C. A working knowledge of the C programming language is assumed.

**Expert C Programming** - Peter Van der Linden 1994  
Software -- Programming Languages.

C Programming. A short Guide - Sheetal Thakare  
2020-07-09

Document from the year 2020 in the subject Computer Science - Programming, grade: 13, , course: C Programming, language: English, abstract: C Programming forms a strong base for any programming language study in the life of Computer Science & Engineering students. So the journey of learning C programming is been made easier here in this guide. The book can be used as Laboratory Manual for the C Programming subject.

**C by Example** - Noel Kalicharan 1994-09-15

C is one of the most popular programming languages today. It is flexible, efficient and highly portable, and is used for writing many different kinds of programs, from compilers and assemblers to spreadsheets and games. This book is based on ANSI C - the recently adopted standard for the C language. It assumes familiarity with basic programming concepts such as variables, constants, iteration and looping, but covers all aspects of C. In general it is as much about learning programming skills as it is about mastering the art of coding programs in C. To this end the text contains a wealth of examples and exercises that foster and test the understanding of the concepts developed in each chapter. An outstanding feature of this book is a treatment of 'pointers'. The topic is presented in a clear, logical and reasoned manner that is easy to follow. Binary files and random access files are also treated in such a manner that the reader can easily become adept at using them. Anybody who wishes to get to grips with the art of programming in C will find this a most valuable book.

**COMPUTER BASICS AND C PROGRAMMING** - V. RAJARAMAN  
2008-08-19

This book introduces students to the basics of computers, software and internet along with how to program computers using the C language. It is intended for an introductory course that gives beginning engineering and science students a firm rooting in the fundamental principles of computers and information technology, and also provides invaluable insights into key concepts of computing through development of skills in programming and problem solving using C language. To this end, the book is eminently suitable for the first-year engineering students of all branches and MCA students, as per the prescribed syllabus of several universities. C is a difficult language to learn if it is not methodically introduced. The book explains C and its basic programming techniques in a way suitable for beginning students. It begins by giving students a solid foundation in algorithms to help them grasp the overall concepts of programming a computer as a problem-solving tool. Simple aspects of C are introduced first to enable students to quickly start writing programs. More difficult concepts in the latter parts of the book, such as pointers and their use, have been presented in an accessible manner making the learning of C an exciting and interesting experience. The methodology used is to illustrate each new concept with a program and emphasize a good style in programming to allow students to gain sufficient skills in problem solving. KEY FEATURES Self-contained introduction to both computers and programming for beginners All important features of C illustrated with over 100 examples Good style in programming emphasized Laboratory exercises on applications of MS Office, namely, Word processing, Spreadsheet, PowerPoint are included.

Problem Solving and Program Design in C, Global Edition  
- Jeri R. Hanly 2015-07-07

For introductory courses in computer science and engineering. Problem Solving and Program Design in C teaches introductory students to program with ANSI-C, a standardised, industrial-strength programming language known for its power and probability. The text uses widely accepted software engineering methods to teach students to design cohesive, adaptable, and reusable program solution modules with ANSI-C. Through case studies and real world examples, students are able to envision a professional career in programming. Widely perceived as an extremely difficult language due to its association with complex machinery, the 8th Edition approaches C as conducive to introductory courses in program development. C language topics are organised based on the needs of beginner programmers rather than structure, making for an even easier introduction to the subject. Covering various aspects of software engineering, including a heavy focus on pointer

concepts, the text engages students to use their problem solving skills throughout. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed.

**Foundations of Computer Science** - Alfred V. Aho  
1994-10-15

Programming for Engineers - Aaron R. Bradley 2011-10-25  
To learn to program is to be initiated into an entirely new way of thinking about engineering, mathematics, and the world in general. Computation is integral to all modern engineering disciplines, so the better you are at programming, the better you will be in your chosen field. The author departs radically from the typical presentation by teaching concepts and techniques in a rigorous manner rather than listing how to use libraries and functions. He presents pointers in the very first chapter as part of the development of a computational model that facilitates an ab initio presentation of subjects such as function calls, call-by-reference, arrays, the stack, and the heap. The model also allows students to practice the essential skill of memory manipulation throughout the entire course rather than just at the end. As a result, this textbook goes further than is typical for a one-semester course -- abstract data types and linked lists, for example, are covered in depth. The computational model will also serve students in their adventures with programming beyond the course: instead of falling back on rules, they can think through the model to decide how a new programming concept fits with what they already know. The book is appropriate for undergraduate students of engineering and computer science, and graduate students of other disciplines. It contains many exercises integrated into the main text, and the author has made the source code available online.

COMPUTER PROGRAMMING IN C, SECOND EDITION - RAJARAMAN, V.

The book, now in its Second Edition, follows the structure of the first edition. It introduces computer programming to a beginner using the programming language C. The version of C used is the one standardised by the American National Standards Institute (ANSI C). C has rapidly gained users due to its efficiency, availability of rich data structures, a large variety of operators, and its affinity to the UNIX operating system. C is a difficult language to learn if it is not methodically approached. The attempt has been to introduce the basic aspects of C to enable the student to quickly start writing C programs and postpone more difficult features of C to later chapters. After reading the first eleven chapters, a beginner can start writing complete programs to solve useful problems. Difficult concepts such as the use of pointers and recursion are explained lucidly with many examples. The book is eminently suitable for undergraduate and postgraduate students of computer science/engineering students as per the prescribed syllabus of several universities. KEY FEATURES • A self-contained introduction to programming for beginners using the C language • Eminently suitable for self-study even by high school students • All important programming language features illustrated with over 100 example programs • Good style in programming explained and illustrated NEW TO THE SECOND EDITION • Chapters with programs have a new section at the end, giving style notes relevant to that chapter • Every chapter is reviewed and revised, correcting minor errors • Appendix I is rewritten to enable students to execute programs on desktop or laptop computers using Linux or Windows environment TARGET AUDIENCE • BE/B.Tech (CSE) • BCA/MCA • B.Sc./M.Sc. (Computer Science)

Fundamentals of Computing and Programming in C - T. Jeyapooan

Fundamentals of Computing and Programming in C is specifically designed for first year engineering students covering the syllabus of various universities. It provides a comprehensive introduction to computers and programming using C language. The topics are covered

sequentially and blended with examples to enable students to understand the subject effectively and imbibe the logical thinking required for software industry applications. KEY FEATURES • Foundations of computers • Contains logical sequence of examples for easy learning • Efficient method of program design • Plenty of solved examples • Covers simple and advanced programming in C

*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.

**Intermediate C Programming** - Yung-Hsiang Lu 2015-06-17  
Teach Your Students How to Program Well Intermediate C Programming provides a stepping-stone for intermediate-level students to go from writing short programs to writing real programs well. It shows students how to identify and eliminate bugs, write clean code, share code with others, and use standard Linux-based tools, such as ddd and valgrind. The text covers numerous concepts and tools that will help your students write better programs. It enhances their programming skills by explaining programming concepts and comparing common mistakes with correct programs. It also discusses how to use debuggers and the strategies for debugging as well as studies the connection between programming and discrete mathematics.

**Pointers in C** - Hrishikesh Dewan 2014-01-21  
Pointers in C provides a resource for professionals and advanced students needing in-depth but hands-on coverage of pointer basics and advanced features. The goal is to help programmers in wielding the full potential of pointers. In spite of its vast usage, understanding and proper usage of pointers remains a significant problem. This book's aim is to first introduce the basic building blocks such as elaborate details about memory, the compilation process

(parsing/preprocessing/assembler/object code generation), the runtime memory organization of an executable and virtual memory. These basic building blocks will help both beginners and advanced readers to grasp the notion of pointers very easily and clearly. The book is enriched with several illustrations, pictorial examples, and code from different contexts (Device driver code snippets, algorithm, and data structures code where pointers are used). Pointers in C contains several quick tips which will be useful for programmers for not just learning the pointer concept but also while using other features of the C language. Chapters in the book are intuitive, and there is a strict logical flow among them and each chapter forms a basis for the next chapter. This book contains every small aspect of pointer features in the C language in their entirety.

**Applied C: an Introduction and More** - Fischer 2000-09  
Applied C: An Introduction and More provides an introduction to C programming from a "hands on" perspective. With this book both Computer Science and

Engineering students learn the C language and how to program through the reading and writing of basic programs early in the book. After introducing students to the basics, the authors use a spiral approach to build on concepts incrementally so that by the end students are able to write longer programs that require multiple functions. The teaching of these programming concepts is accompanied by a focus on sound program design that emphasizes the need for complete and accurate program specification as well as careful testing from the beginning. Both Engineering and Computer Science students will find this book appealing due to the diverse blend of applications. In addition to many motivating applications throughout the text, topics are introduced with excellent background and motivation followed by accessible explanations illustrated liberally with diagrams, graphs, and short programs. The text is comprehensive and contains enough material for one semester or two quarters of instruction. Topics in the first half are important for all engineering students to master. The third quarter of the text covers basic data structures and algorithms that are of general interest. The last quarter of the book is of greater interest to computer science students and includes several important topics that are rarely covered by textbooks or presented in a manner that is accessible to students.

**Software Engineering in C** - Peter A. Darnell 1988  
The author starts with the premise that C is an excellent language for software engineering projects. The book concentrates on programming style, particularly readability, maintainability, and portability. Documents the proposed ANSI Standard, which is expected to be ratified in 1987. This book is designed as a text for both beginner and intermediate-level programmers.

**C Programming for the PIC Microcontroller** - Hubert Henry Ward 2019-12-09

Go beyond the jigsaw approach of just using blocks of code you don't understand and become a programmer who really understands how your code works. Starting with the fundamentals on C programming, this book walks you through where the C language fits with microcontrollers. Next, you'll see how to use the industrial IDE, create and simulate a project, and download your program to an actual PIC microcontroller. You'll then advance into the main process of a C program and explore in depth the most common commands applied to a PIC microcontroller and see how to use the range of control registers inside the PIC. With C Programming for the PIC Microcontroller as your guide, you'll become a better programmer who can truly say they have written and understand the code they use. What You'll Learn Use the freely available MPLAB software Build a project and write a program using inputs from switches Create a variable delay with the oscillator source Measure real-world signals using pressure, temperature, and speed inputs Incorporate LCD screens into your projects Apply what you've learned into a simple embedded program Who This Book Is For Hobbyists who want to move into the challenging world of embedded programming or students on an engineering course.

**C Programming for Scientists and Engineers with Applications** - Rama Reddy 2009-08-18

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.

**The Art and Science of C** - Eric S. Roberts 1995  
This work sets out to provide a solid introduction to

computer science that emphasizes software engineering and the development of good programming style. The text focuses on the use of libraries and abstractions, which are essential to modern programming, and readers will learn the fundamentals of ANSI C, the industry standard. Rather than attempt to translate Pascal-based approaches into a new domain, this text is written from the ground up as an introduction to C.

**A TEXTBOOK ON C** - E. KARTHIKEYAN 2008-06-04

This book is designed to provide a solid introduction to the basics of C programming, and demonstrate C's power and flexibility in writing compact and efficient programs not only for information processing but also for high-level computations. It is an ideal text for the students of Computer Applications (BCA/MCA), Computer Science (B.Sc./M.Sc.), Computer Science and Engineering (B.E./B.Tech), Information Technology (B.E./B.Tech.) as well as for the students pursuing courses in other engineering disciplines, both at the degree and diploma levels, possessing little or no programming experience. The book presents a comprehensive treatment of the language, highlighting its key features and illustrating effective programming techniques by examples. The basic programming concepts such as data types, input and output statements, looping statements, etc. are clearly explained in a simplified manner. The advanced techniques such as functions, pointers and files are discussed thoroughly. One of the key topics, Data Structures, is explained in detail with diagrammatic representations and well-written programs. The linked list, the heart of the data structure part, is very well illustrated. The final part of the book contains a collection of solved programs to reinforce the understanding of the concepts of the C language.

**C Programming: The Essentials for Engineers and Scientists** - David R. Brooks 2012-12-06

This text teaches the essentials of C programming, concentrating on what readers need to know in order to produce stand-alone programs and so solve typical scientific and engineering problems. It is a learning-by-doing book, with many examples and exercises, and lays a foundation of scientific programming concepts and techniques that will prove valuable for those who might eventually move on to another language. Written for undergraduates who are familiar with computers and typical applications but are new to programming.

Programming in C - Reema Thareja 2011-03

Programming in C is designed to serve as a textbook for the undergraduate students of engineering, computer applications, and computer science for a basic course on C programming. Comprehensive in its coverage, the book focuses on the fundamentals to build a strong foundation of how to write effective C programs.

Practical C++ Programming - Steve Oualline 2003

Practical C++ Programming thoroughly covers: C++ syntax · Coding standards and style · Creation and use of object classes · Templates · Debugging and optimization · Use of the C++ preprocessor · File input/output.

C Programming Concepts - Jitendra Patel 2012-12-01

C Programming Concepts: This book is specially written for Students who are new in the Computer Engineering and Information technology and Programmers to gain fundamentals knowledge about C programming language. Also every one with interest in C Programming can refer this book to get the knowledge about Various features the subject. It covers virtually most of High level language features and some of the advanced features like Preprocessor, Structures, Unions, Pointers and File handling etc... including more than hands on examples tested. Samples are presented in easy to use way through Turbo C 3.0.

**Secure Coding in C and C++** - Robert C. Seacord 2013-03-23

Learn the Root Causes of Software Vulnerabilities and How to Avoid Them Commonly exploited software vulnerabilities are usually caused by avoidable software defects. Having analyzed tens of thousands of vulnerability reports since 1988, CERT has determined that a relatively small number of root causes account for most of the vulnerabilities. Secure Coding in C and C++, Second Edition, identifies and explains these root causes and shows the steps that can be taken to prevent exploitation. Moreover, this book encourages programmers to adopt security best practices and to develop a security mindset that can help protect software from tomorrow's attacks, not just today's. Drawing on the CERT's reports and conclusions, Robert C. Seacord

systematically identifies the program errors most likely to lead to security breaches, shows how they can be exploited, reviews the potential consequences, and presents secure alternatives. Coverage includes technical detail on how to Improve the overall security of any C or C++ application Thwart buffer overflows, stack-smashing, and return-oriented programming attacks that exploit insecure string manipulation logic Avoid vulnerabilities and security flaws resulting from the incorrect use of dynamic memory management functions Eliminate integer-related problems resulting from signed integer overflows, unsigned integer wrapping, and truncation errors Perform secure I/O, avoiding file system vulnerabilities Correctly use formatted output functions without introducing format-string vulnerabilities Avoid race conditions and other exploitable vulnerabilities while developing concurrent code The second edition features Updates for C11 and C++11 Significant revisions to chapters on strings, dynamic memory management, and integer security A new chapter on concurrency Access to the online secure coding course offered through Carnegie Mellon's Open Learning Initiative (OLI) Secure Coding in C and C++, Second Edition, presents hundreds of examples of secure code, insecure code, and exploits, implemented for Windows and Linux. If you're responsible for creating secure C or C++ software-or for keeping it safe-no other book offers you this much detailed, expert assistance. C Programming for Engineering and Computer Science - H. H. Tan 1999

C: A Software Engineering Approach - Peter A. Darnell 2012-12-06

This book describes the C programming language and software engineering principles of program construction. The book is intended primarily as a textbook for beginning and intermediate C programmers. It does not assume previous knowledge of C, nor of any high-level language, though it does assume that the reader has some familiarity with computers. While not essential, knowledge of another programming language will certainly help in mastering C. Although the subject matter of this book is the C language, the emphasis is on software engineering-making programs readable, maintainable, portable, and efficient. One of our main goals is to impress upon readers that there is a huge difference between programs that merely work, and programs that are well engineered, just as there is a huge difference between a log thrown over a river and a well-engineered bridge. The book is organized linearly so that each chapter builds on information provided in the previous chapters. Consequently, the book will be most effective if chapters are read sequentially. Readers with some experience in C, however, may find it more useful to consult the table of contents and index to find sections of particular interest.

**Computer Science** - Behrouz A. Forouzan 1997-01-01

**C** - George S. Tselikis 2017-06-26

This easy-to-use, classroom-tested textbook covers the C programming language for computer science and IT students. Designed for a compulsory fundamental course, it presents the theory and principles of C. More than 500 exercises and examples of progressive difficulty aid students in understanding all the aspects and peculiarities of the C language. The exercises test students on various levels of programming and the examples enhance their concrete understanding of programming know-how. Instructor's manual and PowerPoint slides are available upon qualifying course adoption Computer Programming in C for Beginners - Avelino J. Gonzalez 2020-11-01

This textbook is an ideal introduction in college courses or self-study for learning computer programming using the C language. Written for those with minimal or no programming experience, Computer Programming in C for Beginners offers a heavily guided, hands-on approach that enables the reader to quickly start programming, and then progresses to cover the major concepts of C programming that are critical for an early stage programmer to know and understand. While the progression of topics is conventional, their treatment is innovative and designed for rapid understanding of the many concepts in C that have traditionally proven difficult for beginners, such as variable typing and scope, function definition, passing by value, pointers, passing by reference, arrays, structures, basic memory

management, dynamic memory allocation, and linked lists, as well as an introductory treatment of searching and sorting algorithms. Written in an informal but clear narrative, the book uses extensive examples throughout and provides detailed guidance on how to write the C code to achieve the objectives of the example problems.

Derived from the author's many years of teaching hands-on college courses, it encourages the reader to follow along by programming the progressively more complex exercise programs presented. In some sections, errors are purposely inserted into the code to teach the reader about the common pitfalls of programming in general, and the C language in particular.