C For Engineers & Scientists, An Interpretive Approach with Companion CD

By Harry Cheng

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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.

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Editorial Review

About the Author
Dr. Harry H. Cheng is a professor at the University of California, Davis. He is the designer and original implementer of Ch, an embeddable C/C++ interpreter for script computing, and he participated in the revision of C through ANSI X3J11 and ISO 22/WG14 C Standard Committees with contributions in numerical features of VLA, complex numbers, and IEEE 754 floating-point arithmetic in C99. He has been teaching introductory computer programming in C for engineering applications and engineering software design at UC Davis since 1992. Dr. Cheng has published over 140 technical papers. He is the founder of SoftIntegration, Inc. and a Fellow of ASME and Senior Member of IEEE.

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