



An Invitation to Computer Science: C++ Version, 4th Edition

By G. Michael Schneider, Judith Gersting

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This new edition of Invitation to Computer Science follows the breadth-first guidelines recommended by CC2001 to teach computer science topics from the ground up. The authors begin by showing that computer science is the study of algorithms, the central theme of the book, then move up the next five levels of the hierarchy: hardware, virtual machine, software, applications, and ethics. Utilizing rich pedagogy and a consistently engaging writing style, Schneider and Gersting provide students with a solid grounding in theoretical concepts, as well as important applications of computing and information technology. A laboratory manual and accompanying software is available as an optional bundle with this text.

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Editorial Review

About the Author

G. Michael Schneider is Professor Emeritus of Mathematics and Computer Science at Macalester College in St. Paul, Minnesota. He also served as a Visiting Professor of Computer Science at Columbia University in New York. His professional interests include parallel processing, computer networks, programming methodology, and computer science education. He has written many successful textbooks on software development, data structures, computer organization, and a breadth-first overview of computer science. Dr. Schneider was a member of the committee that authored the ACM/IEEE Computing Curriculum 2001. He has received Fulbright Grants to teach computer science and applied mathematics in Mauritius, Malaysia, Nepal, and Mongolia. He received his B.S. from Michigan University and his M.Sc. and Ph.D. in computer science from the University of Wisconsin-Madison.

Judith Gersting is a Professor Emeritus of Computer Science at the University of Hawaii at Hilo and at Indiana University-Purdue University at Indianapolis, where she now teaches part-time. An experienced educator and respected professional, Dr. Gersting has written a number of leading college textbooks. Her areas of specialization include theoretical computer science and computer science education. She earned her B.S. from Stetson University and her M.A. and Ph.D. in mathematics from Arizona State University.

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