C: From Theory to Practice

By George S. Tselikis, Nikolaos D. Tselikas

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Designed for a compulsory fundamental course, **C: From Theory to Practice** uses a hands-on approach to teach the C programming language, using numerous examples and a clear, concise presentation. Easy to use and classroom tested, this textbook includes more than 500 exercises and examples of progressive difficulty to help students in understanding all the aspects and peculiarities of C. The exercises test students on various levels of programming and the examples enhance their concrete understanding of programming know-how. Divided into three parts, this book:

- Introduces the basic concepts of C, like getting input from a user, C's operators, selection statements, and loops.
- Emphasizes major features of C such as arrays, pointers, functions and strings.
- Covers advanced topics such as like searching and sorting arrays' algorithms, structures and unions, memory management, the preprocessor and files.

The book tests the skills of beginners and advanced developers by providing an easy-to-read compilation of the C theory enriched with tips and advice as well as difficulty-scaled solved programming exercises. It decodes the secrets of the C language, providing inside information and programming knowledge through practical examples and meaningful advice. The examples are designed to be short, concrete, and substantial, quickly giving students the know-how they need.

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Editorial Review

About the Author

Dr. George S. Tselikis received his Dipl–Ing and his PhD from the School of Electrical and Computer Engineering of National Technical University of Athens (NTUA) in 1993 and 1997, respectively. In 1998, he joined the COMET group in the Center for Telecommunications Research at Columbia University, New York and worked as a postdoc research associate. He was a founding member of 4Plus S.A. (1999-2013), where he worked in the development of network protocols and services. He has a long working experience in the telecom area, and his research interests focus on software specification, development, and testing of network protocols and services in wired and wireless networks. During his professional career, he has collaborated with big players in the telecom industry like Siemens, Nokia, and Alcatel. Since 2004, he has been a visiting lecturer in several Greek universities and technical institutes. He teaches courses related to network technologies, protocols and communications, as well as the C language.

Dr. Nikolaos D. Tselikas received his Dipl–Ing and his PhD from the School of Electrical and Computer Engineering of National Technical University of Athens (NTUA) in 1999 and 2004, respectively. His research interests focus on the specification and implementation of network services and applications. He has participated in several European and national research projects in this field. During his involvement in the research projects, he has collaborated in software design and development topics with big players in the telecom industry like Ericsson, Siemens, Alcatel, and Vodafone. He has served as a visiting lecturer in the Department of Informatics and Telecommunications, University of Peloponnese, Greece, since 2006 and was appointed lecturer in 2009. He currently serves as an assistant professor at the same university, where he teaches courses related to applications' programming and network services, as well as the C language.

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