C Interfaces and Implementations: Techniques for Creating Reusable Software by David R. Hanson

C Interfaces and Implementations describes how to use interface-based design in the C programming language, and it illustrates this approach by describing 24 interfaces and their implementations in detail. The source code in the book is interleaved with its explanation in an order that best suits understanding the code.

Personal Review: C Interfaces and Implementations: Techniques for Creating Reusable Software by David R. Hanson
I second the many positive reviews about this book. If you architect and/or make software for a living, this book will give you a life long of useful ideas and provide with real running and working generic solutions. Foremost I was personally stunned by the implementation of the exception handler emulator, which I adopted ever since. Now I can look back at it's
respectable 12 years of service with exemplary low "bug rate" and hundreds of millions in revenue gathered from products using this style of coding.

One issue was not mentioned by the most of other reviewers: This book is one of the now rare examples of "Literate Programming," a term coined by Donald Knuth, who implemented the "web system" with two programs Tangle and Weave. From the same source the one program generates code for a compiler, the other generates a book text for a text processing system. This way code and the literature about it are in perfect sync. Most importantly, the code showed in the book is a real tested and running implementation, not a mere pseudo code used by others so often, which may or may not be correct. See section 1.1 for a description of the system and typographical convention used by Prof. Hanson in his book.

For me this book is a classic. Timeless, even now 12 years since its date of release it is highly recommended for every practitioner at any level.

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