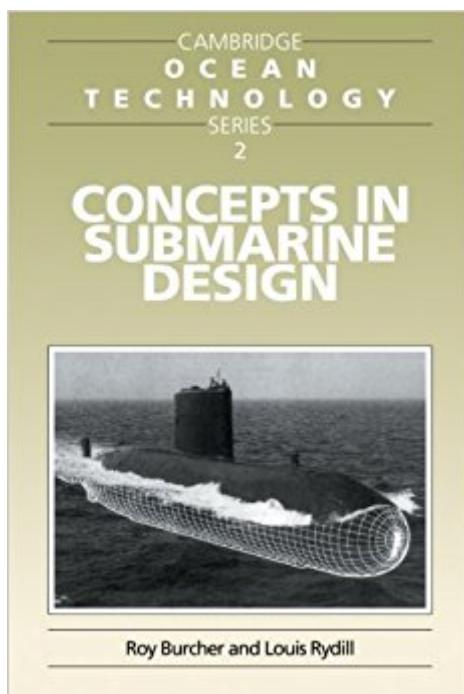


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# Concepts In Submarine Design (Cambridge Ocean Technology Series)



## Synopsis

This book shows how the engineering and architectural aspects of submarine design relate to each other, and describes the operational performance required of a vessel. The authors explain concepts of hydrodynamics, structure, powering and dynamics, in addition to architectural considerations that bear on the submarine design process. They pay particular attention to the interplay among these aspects of design, and devote a final chapter to the generation of the concept design for the submarine as a whole. Submarine design makes extensive use of computers, and the authors give examples of algorithms used in concept design. They provide engineering insight as well as an understanding of the intricacies of the submarine design process. The book will serve as a text for students and as a reference manual for practicing engineers and designers in marine and naval engineering.

## Book Information

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## Customer Reviews

"Part of Cambridge University Press's Ocean Technology Series, this book explores the many engineering and architectural aspects of submarine design. Particular attention is given to the interplay between aspects of hydrodynamics, structure and propulsion, and many examples of concept design algorithms are provided. This book will serve as a text for students and as a reference manual for practicing engineers, naval architects, and designers." Proceedings, a publication of the United States Naval Institute, July 1994

In addition to architectural considerations, this text explains the concepts of hydrodynamics, structure, powering and dynamics, paying particular attention to their interplay in submarine design. It is intended for engineers and designers in marine and naval engineering, as well as students.

Excelent

Was concerned about the condition of a used book. However it was in mint condition. As for the content my son is using it as a research book for a submarine project at school. The teacher recommends it.

The guy who didn't like this book must not have read anything other than the back cover. I used this book when studying for engineering quals on the USS Albuquerque, and it was of great assistance to me. It does have some flaws, which would mainly be an issue for people with no exposure to naval engineering. That being said, it's readable enough that anyone can learn quite a bit about submarine design. The discussions on hull shape, drag, and propulsion alone are worth the price.

Well organized book which ranges over the topics of general design principles to the mechanics of pressure hulls, buoyancy, propulsion and underwater hydrostatics. For the technically oriented beginner, insights into the specifics design parameters suffer by the authors' frequent omission of definitions for their terms. Overall well worth the time to orienting oneself to the subject of submarine design.

This book offers excellent information from a military point of view but, it is extremely useful for any submersible. The language is extremely simple even for non-navy oriented readers. The illustrations are very clear and the book covers from history of military subs to almost how to plan its construction.

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One of the few engineering books that are actually readable by most human beings. For that alone it

merits the highest rating. Otherwise, it's an excellent and comprehensive introduction to submarines which is also inspiring.

This book is a waste of money and time. Please don't waste your money. You can buy and learn the hardway, as I did!.I wish someone would have wrote an honest review before I wasted my money. You can find the content of this book plus more advanced articles about Submarine design on the internet FREE.

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