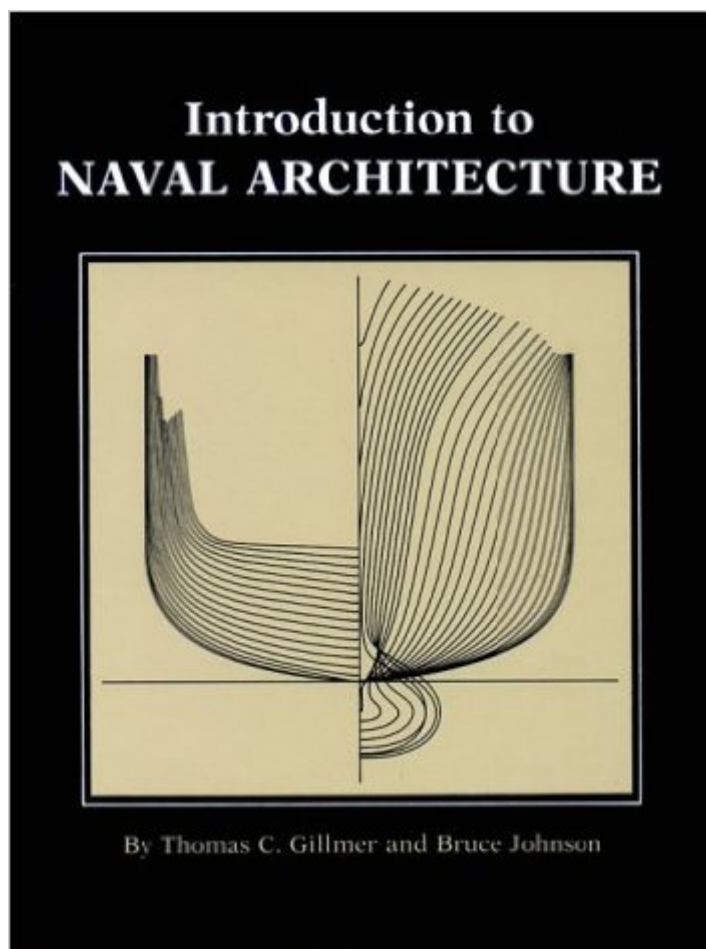


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# Introduction To Naval Architecture



## Synopsis

The book covers such topics as ship geometry, properties of shipbuilding materials, stability, submarine hydrostatics, propellers and propulsion systems, and maneuverability. Appendices include conversion tables, lists of fresh- and saltwater properties, and numerical integration techniques.

## Book Information

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## Customer Reviews

The engineering fundamentals of naval architecture are emphasized in this basic textbook prepared by two U.S. Naval Academy professors. The book develops such topics as ship geometry, strength, and stability, submarine hydrostatics, ship hazards and vulnerability, and ship hydrodynamics. This generously illustrated volume includes numerous example problems and suggestions for additional study.

I bought this as a reference while working as a field engineer for offshore support vessels. It gives you a good understanding of ship design and how vessels and their cargo will react based on wave amplitude, frequency, etc. Definitely a good read and the printed pages included were awesome.

I am a Mechanical Engineer looking at ship design. This book looks to be an excellent resource beyond the fluid dynamics courses I had in college.

Condition of the book was better than expected and the book itself is helpful for anyone looking into naval architecture and it is a simple read with easy to understand examples.

The information is thorough and I assume somewhat complete, if you plan to do a reconstruction of the aircraft carrier Nimitz or may older issues such as the Enterprise. However for anything under 250 feet, the book is virtually not applicable. I am currently refitting a 40' aftcabin cruiser that is mahogany and oak. I was hoping to find information on newer reconstruction methods however, this book only deals in theory pertaining to large vessels and classical construction methodology.

"Introduction to Naval Architecture" provides a unique approach to ship design. Although this approach is quantitative and mathematically "intense", Gillmer also provides qualitative description within certain chapters. Ultimately, for the purposes of clarity and a definitive understanding of basic ship design, this work is best coupled with "Introduction to Naval Architecture" (E.C. Tupper), which provides a "descriptive" perspective. The Gillmer and Johnson reference is highly recommended for those individuals who have prior knowledge of naval architecture, and a strong foundation in mathematics; otherwise, the aforementioned coupling of two references becomes necessary. Please note: This is my opinion as a high school Senior completing an independent research project within the field of naval architecture.

With the possible exception of SNAME's "Principles of Naval Architecture," "Introduction to Naval Architecture" is the perfect introductory text for any naval architecture/marine engineering student. It includes brief but dense overviews of hydrostatics, hydrodynamics, ship structure, resistance, and propulsion. While there are more detailed texts for each of the above topics (again, SNAME's PNA does a good job as a reference, but not so much as a text, and Harvald's "Resistance and Propulsion of Ships" is THE text for that topic), it is the perfect source for equations, derivations, illustrations, graphs, and, most importantly, example problems. It's very hard to find any clear examples of NA problems in most texts - the examples in this book are worked through step by step, which makes comprehension a breeze. If you're studying or working in the field of naval architecture, this book is a necessary addition to your reference library.

This book is great for starters in Naval Architecture and Engineering. I am a Naval Engineering Student and usually borrow this book from the library. But I liked it so much that I bought it for me to have one at home. There is introduction about stability, resistance of material, etc.

This is a great text for everyone. I think Zubaly's Applied Naval Architecture does a slightly better job in presenting the coefficients, but in every other respect, this text is superior. Zubaly and this text are weak in the details of seakeeping, but there are several other specific seakeeping texts, namely Dynamics of Marine Vehicles by Battacharia (I know I misspelled his name)

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