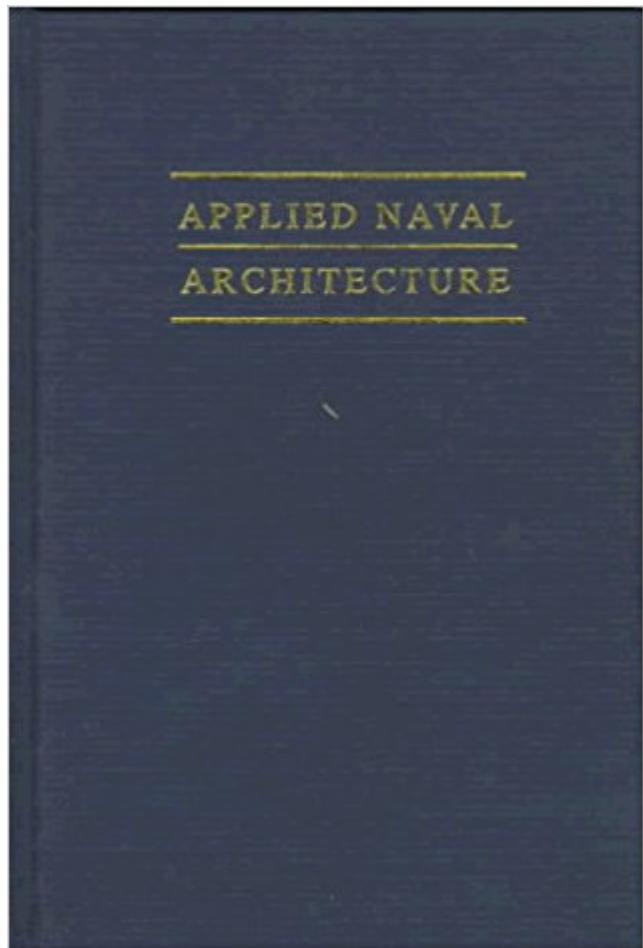


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# Applied Naval Architecture



## **Synopsis**

Applied Naval Architecture is intended for undergraduate students of many of the disciplines in maritime affairs, including marine engineering, marine transportation, nautical science, shipbuilding or ship production (shipyard apprentice schools), marine electrical engineering, meteorology, and oceanography. It could be used as an introduction to naval architecture for technical personnel of all types already employed in shipyards, for licensed officers as a general reference, and preparation for license upgrading examinations. It describes in detail what naval architects do, and how they do it, to all students and practitioners involved in the business of merchant ships and shipping, except for professional naval architects themselves. Students preparing for a degree in naval architecture would find the book useful as an introduction to their profession.

## **Book Information**

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## **Customer Reviews**

This is a good introduction to the practical aspects of ships with a good blend of math and intuitive description. I was looking for something more advanced than Gerr's Propeller Handbook (for prop/engine speed tradeoffs), but it was not present in this book. Both the Resistance and Propulsion chapters are focused on the scaling of model results to predict ship performance. Here's the TOC which may help some to evaluate: 1. Cargo Ships, 32. Hull Form, 223. Static Equilibrium and Stability, 484. Stability at Large Angles, 1005. Trim and Longitudinal Stability, 1336. Flooding and Subdivision, 1697. Ship Strength, 1958. Ship Resistance, 2389. Ship Propulsion, 27110. Ship Dynamics, 299

I just completed my BA in Naval Architecture & Marine Engineering at the University of Michigan.

This was used as a textbook for a Sophomore level course, and since taking that course I have not gone more than three months without referencing back to it. This book contains information on every topic and every vital equation necessary throughout the design of a conventional hull and propulsive system. It covers pretty much all of the fundamentals of Naval Architecture, and touches on some of the basics of Marine Engineering. It is an extremely useful reference for any Naval Architect, taking the most important concepts and equations from Principles of Naval Architecture and combining them into one text for practical applications. There was a running joke among my classmates throughout my years at Michigan that this book is the bible of Naval Architecture. I cannot think of any other more fitting way of describing it. My only complaint, one so small and insignificant that it's almost not even worth mentioning, is that the equations are not all non-dimensional, but any engineer with any brain whatsoever can figure out how to convert them to a different set of units. Couple this book with Marine Engineering Design of Propulsion and Electric Power Generation Systems and your favorite statics book and you have all the necessary references for a pretty involved vessel design, minus any regulations that you may have to research on your own from ABS, Lloyd's or the like.

Used this in Freshman Naval Architecture at the University of Michigan. Great text, and frankly within it you'll find most of what you actually need to know in the field. I highly recommend this book to Naval Architects or seamen... There is a reason you see so many in our field with the Zubaly book!

Great Book! I was not familiar to anything ship related. However, this book has made comprehension and learning very easy! It's not one of those super technical books so comprehension is very easy!

This book is a good book, you need to have a good background in higher math skills. My accounting level math was not good enough for most of the problem solving. Maybe I needed 'Naval Architecture for Idiots.' If your math skills are not advanced, this book will not help much.

This book was purchased in lieu of Principles of Naval Architecture Volume I, because that book was under revision at the time of purchase. I have found the book to be a very concise substitute for the PNA, and am very pleased with it. It has adequate descriptions of concepts along with the "math" needed without going into the extreme detail that PNA does. Overall a great reference.

I need this for school

This is an excellent technical treatment of naval architecture. I highly recommend it. The illustrations and diagrams are particularly well-done, and the equations and explanations are very easy to follow.

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