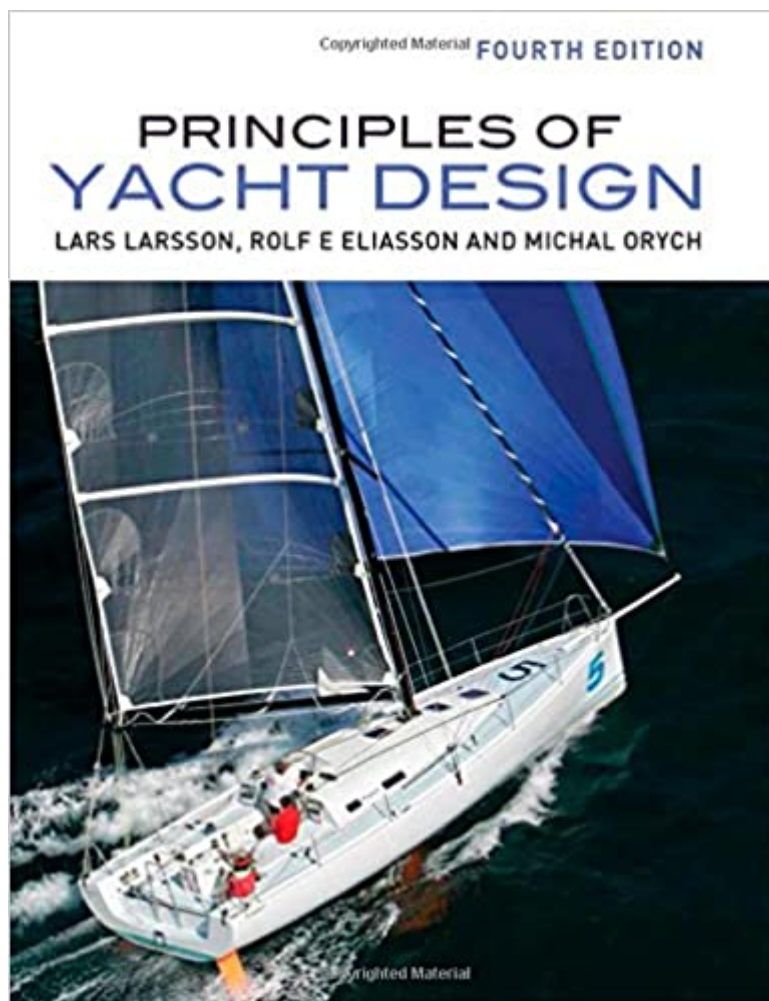


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# Principles Of Yacht Design



## Synopsis

"This book is deeply fascinating...a must." -- Classic Boat Principles of Yacht Design is the authority on planning and creating your desired yacht. Inside you will find all the essentials, including: Design methodology and considerations The yacht's specifications Hull geometry, including lines plans and computer aided design (CAD) Hydrostatics and stability in waves and calm Hull design Keel and rudder design Sail and rig design Balance Propeller and engine characteristics High-speed powerboat hydrodynamics Hull construction considerations for sail and power Rig calculations ISO standards for dimensioning Cockpit, deck, and cabin layout Weight calculations Design evaluation, performance prediction, experimental techniques, and computational fluid dynamics "A classic." -- Cruising World "A sound and up to date manual of yacht design . . . a classic in its field" -- Practical Boat Owner "A definitive work on yacht design." -- Cruising "Ideal for budding designers and mathematically-minded yachtsmen." -- Yachting Monthly "The standard book on the subject." -- Yachting Life "Covers every aspect of the yacht design process." -- IBI magazine

## Book Information

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## Customer Reviews

Lars Larsson is a naval architect and professor of hydrodynamics at Chalmers University of Technology in Gothenburg, Sweden. Larsson is president of Flowtech International, a company specializing in hydrodynamic software for ship design. Visit [www.flowtech.se](http://www.flowtech.se) for more information. Rolf Eliasson is a yacht design/construction engineer who has seen more than 5,000 yachts built from his designs. Eliasson is one of the forerunners in using computer techniques for yacht design

and the evolution of new designs. Michal Orych is a PhD student in naval architecture and works with Larsson at Flowtech International AB.

As with the previous editions of the Principles of Yacht Design, the authors have covered the design of a yacht from A to Z with enough principles, concepts and mathematics to allow the student yacht designer to do a thorough job with his or her design. This edition presents a new design example that is thoroughly contemporary and reflects the current style of design - plumb bow, broad beam carried to the stern and fairly flat canoe body lines. The worked examples clearly show how to perform the calculations necessary to provide the hydrostatic data needed for the design. Other calculations provide the ability to size the strength of the rigging and the hull. It is no wonder that the Society of Naval Architects and Marine Engineers has had the Principles of Yacht Design on their list of books to purchase. This edition sits alongside my editions of Principles of Naval Architecture, Ship Design and Construction, Hydrodynamics of Ships, and Skene's Elements of Yacht Design.

I bought this edition when it was first released and went through it page by page in order to transfer my margin notes from prior editions to this one. While the publishers are to be commended for their continued support of this highly valuable reference work, in particular to add new material, it is quite shocking to see some highly practical basic information deleted from this new edition. For example the text and graphs within Chapter 5 having to do with the effects on resistance due to the location of the LCB (which exist in all three prior editions of PYD) have - bizarrely - been deleted from this edition. A full five pages of text and valuable graphs... poof - gone - reduced to a few paragraphs. What were they thinking...? Granted this information can be found elsewhere, however as one who has taught the basics of yacht design it is in my view extremely important to retain all of the 'basics', not only for the sake of new students, but also for reference. I lay this complaint firmly at the doorstep of the publisher, who in all likelihood decided that 'some things had to go' in order to make room for new content. Unbelievable! Perhaps if it is getting too big, it should be published in two volumes... Why only three stars...? Students and yacht designers alike should definitely own this book, however I recommend also finding the THIRD edition..!

A clear, readable, thorough, comprehensive and up to date text. The list of references is very useful and leads to many further valuable sources of information. The only significant downside for me is that I wish it had more (anything?) about multihulls and their specific design issues. Maybe the authors could co-opt a leading multihull designer to contribute a couple of specific chapters for a

future edition. I would also like to see more about rig design from a fundamental point of view rather than a scantlings rule based point of view.

Very detailed and readable. Writers are very smart but also very concise so you have to read it carefully. I especially love how they take you through the design of a single boat so it is consistent throughout the text. Don't be scared off by math - the math is very approachable and anyone with algebra skills can understand it.

This is apparently the standard text these days. It's a good guide to the theory behind yacht design with an eye toward software. If you have a good grasp of basic physics (statics and mechanics), this book should be a piece of cake; if not, you may want to brush up on those first.

Excellent technical discussion. Clear descriptions and diagrams. Useful design information. The use of a modern light-displacement sailboat as the example throughout gives unity to the various chapters.

This book is very comprehensive and covers most of the main topics from basic design to hydrodynamics to structural details. I would recommend this book to anyone interested in the basics of yacht design.

Very interesting high level review of all aspects of modern yacht design.

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