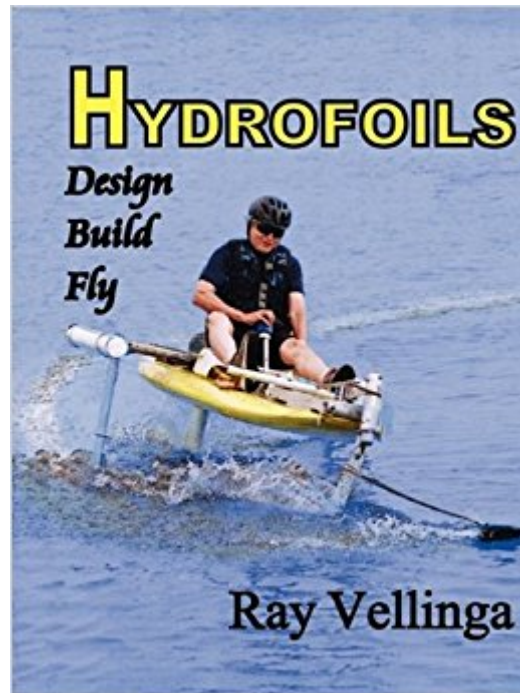




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Hydrofoils: Design, Build, Fly



Synopsis

This is a book on how to design, build, and fly hydrofoil boats. It begins with the history and theory of hydrofoils, and continues with an explanation of flight characteristics, such as; stability, control, lift, drag, cavitation, and ventilation. Foil configurations, weight and balance, flying height, and roll management are covered as well as calculations of stress, hull configuration, and wing sizing. One section demonstrates methods for comparing designs, and explores specific design ideas for motorized, human powered, and sail powered hydrofoils. Piloting and trouble shooting are followed by a bibliography and index. This very complete book includes over 270 illustrations, charts and tables on the subject of creating hydrofoil boats. Because hydrofoils fly like airplanes, except in a denser fluid, the book's subject could be described as aerodynamics adapted to hydrofoils. It is the best book available for hydrofoil enthusiasts. There is no other book like it.

Book Information

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Customer Reviews

This outstanding and comprehensive book not only describes how to design, build, and fly hydrofoil boats, but it includes sketches of nearly every kind of hydrofoil boat. The author's design equations are understandable, accurate, comprehensive, and yet simple. Important design considerations are discussed, including safety. Overall, it is the best book that I have seen for experimentors, inventors, or for sport users of hydrofoil boats. Hydrofoil boats typically provide a smoother ride in waves, can go faster, and are more fuel efficient than other boats.

I've been tooling around with hydrofoils for years and all I have to say is this is now my almanac. Takes all my various research and puts it in one simple to understand and apply book. Very happy with my purchase.

All the things you need to know about designing and building building a hydrofoil. Very practical, but with a depth of knowledge. Perfect some someone like me, building a small hydrofoil on a budget.

Very detailed and yet very accesible. Plain language, excellent examples easy progression.I recommend it if you are interested in getting into Hydrofoil Design. Good for a begginer or Expert.I am an aerospace engineer and i have rarely seen books so helpful.

Great book, gives a short history and then the guts of what you need to know. Then there are examples.

A good and instructive book for the amateur and fortunately not too technical,for many others of this ilk tend to be written by boffins This book was very useful to me before giving the go ahead to let my own boffins loose on designing a new wingsail hydrofoil leisure crafty.

Right from the preface your book touched a chord with me. I may have a technical background, but nothing satifies more than the practical challenge of building knowledge based on "doing". Here is a book that covers in detail all the ideas and data realted to my pet subject! Fortunately, in sailing you cannot predict all variables and and this goes even more for hydrofoil sailing which adds a further dimension. Having built and tested many configurations of sailing hydrofoil over the years I can attest to the accuracy and it is refreshing to have an accurate description of what is happening. Refreshing explanations of all those things you thought you understood but were not quite sure.I have gleaned heaps of hydrofoil stuff, borrowed Grogono's book, Marchaj, [...], Tom Speer etc, but have never come across a condensed, comprehensive resource like this before... if only it were around 15 years ago when I first started mucking around with foils!! Simple tables, a ready reckoner, just what I missed in discussions with the theorists. Data consolidated, I even found some graphs I had invented for myself, which I now find were aparently already developed by others...I am really impressed that magnificent design ideas such as Dynafoil and Moth get proper coverage. In Hyfibe I can see the embodiment of many best principles, it is now a real challenge to apply these to a sailing craft!.This book is comprehensive and well presented and finally confirms so much of what I

had gleaned over the years but had no speaking partner to check with. It also provides all the elements which I can readily develop into new designs. A fantastic resource of really neat ideas well worth testing. Totally recommended to anyone contemplating designing, building and flying with hydrofoils!Dr. Ian Ward

I was very disappointed in this book. It was all theoretical and no hands on practical information on how to build different hydrofoils. Based on the deceiving title, I will give it a rating of 1.

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