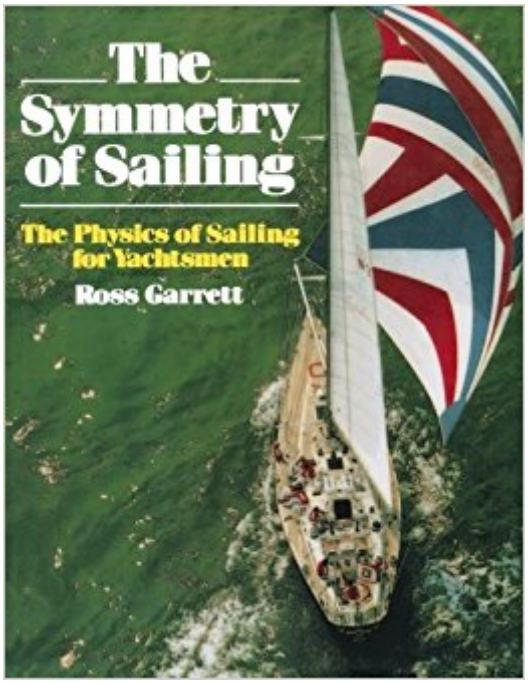
The Symmetry Of Sailing: The Physics Of Sailing For Yachtsmen



Synopsis

Here is a detailed study of the motive forces of a yacht written in clear and accessible terms. The author has the rare gift of enabling his readers to relate the nautical phenomena with which they are so familiar to a scientific explanation of how and why these occur. The first part covers downwind sailing, upwind sailing, sails, the hull, and the dynamic motion of a yacht. Part Two is devoted to more mathematical explanations of the same phenomena for those requiring a more scientific approach.

Book Information

Paperback: 280 pages
Publisher: Sheridan House (January 25, 1996)
Language: English
ISBN-10: 1574090003
ISBN-13: 978-1574090000
Product Dimensions: 7.5 x 0.7 x 9.8 inches
Shipping Weight: 1.4 pounds (View shipping rates and policies)
Average Customer Review: 4.7 out of 5 stars 8 customer reviews
Best Sellers Rank: #296,459 in Books (See Top 100 in Books) #50 inÃ Â Books > Engineering & Transportation > Engineering > Marine Engineering #269 inÃ Â Books > Sports & Outdoors > Outdoor Recreation > Sailing #337 inÃ Â Books > Engineering & Transportation > Transportation > Ships

Customer Reviews

A technoid's delight....If you're willing to wade through it and spend some time scratching your head, there are enough nuggets here to make this a worthwhile read. (Sailing World)Recommended to those yachtsmen who would add understanding to their experience. (Lloyd’s List)

After five years of working in medical physics in the U.S., Ross Garrett returned to New Zealand to teach and research nuclear physics, which he combined with racing small catamarans and trailer sailers. The Symmetry of Sailing is based on a series of lectures given to amateur sailors at the University of Auckland.

One of the best books I’ve ever bought on the physics and theory of sail trimming. I leant this book

to a few of my friends and they ended up buying their own copies for them selves. The math is not a requirement to reading this book it is just use the back up some statements. It is pretty easy reading and if you’re not a constant sailor you will probably end up reading this again and again throughout the years to jog your memory.

If you really want to understand sailing and what makes the boat go through the water and why this is the book. Its not a light bedtime read. You do have to think about what is being said and explained but the explanations are complete enough to appeal to an engineer (as myself) yet presented with enough discussion that a non-engineer with an interest in the details can enjoy it as well. Although the equations and formulas are given, you don’t need to know sophisticated math to understand. Its not a cookbook to sail faster but if you apply the material presented here, you cannot but sail faster, better and more efficiently.

I go back to this book over and over. It is very well researched and well written and keeps the magic while delivering the math.

Has a lot of information about the physics and engineering of sailboats. Sometimes, the basic things are intermingled with advanced material, which makes it difficult to get it in the first reading. Overall, I learned a lot from the book.

While written some 12 years ago this book is as fresh as a daisy. Some of the topics are still breathtaking in their implications for the future of sailing such as sailing dead downwind faster than the wind.Already practical yachts have sailed straight into the wind, and it just awaits the technology to acheive this down wind trick.As well there are straight forward guides as to how to handle a yacht in the real world of racing, as well as sobering discussions on the effects of breaking seas.All in all it has made me a far more aware sailor with the knowledge to plan for exciting sailing and future fun.

Garrett goes all out in describing the real physics behind sailing. A great book for anyone with a serious need or want to understand the intricacies behind a wonderful sport. The book is very technical, especially in the latter parts. Very well written, and much less overwhelming than Marchaj.

good book for the intermediate and expert in yacht design/construction and yachting who wants to check the knowledge.

If you like sailing and physics this book will make you enjoy on a fourth dimension.

The Symmetry of Sailing: The Physics of Sailing for Yachtsmen Symmetry Rules: How Science and Nature Are Founded on Symmetry (The Frontiers Collection) Physics from Symmetry (Undergraduate Lecture Notes in Physics) Annals of the Royal Vancouver Yacht Club 1903-1965: History of the Club's founding; granting of the Royal Charter; prominent early yachtsmen; racing ... and Gulf of Georgia, British Columbia, Canada Learn the Nautical Rules of the Road: An Expert Guide to the COLREGs for all Yachtsmen and Mariners (Lifeboats) The Cruising Guide to the Virgin Islands: A Complete Guide for Yachtsmen, Divers and Watersports Enthusiasts Symmetry: An Introduction to Group Theory and Its Applications (Dover Books on Physics) Symmetry, Group Theory, and the Physical Properties of Crystals (Lecture Notes in Physics) Unconventional Superconductors: Experimental Investigation of the Order-Parameter Symmetry (Springer Tracts in Modern Physics) The Handbook Of Sailing: A Complete Guide to All Sailing Techniques and Procedures for the Beginner and the Experienced Sailor Sailing Fundamentals: The Official Learn-To-Sail Manual of the American Sailing Association and the United States Coast Guard Auxiliary The Solid State: An Introduction to the Physics of Crystals for Students of Physics, Materials Science, and Engineering (Oxford Physics Series) Head First Physics: A learner's companion to mechanics and practical physics (AP Physics B - Advanced Placement) Physics for Scientists and Engineers with Modern Physics: Volume II (3rd Edition) (Physics for Scientists & Engineers) Physics for Kids : Electricity and Magnetism - Physics 7th Grade | Children's Physics Books Six Ideas that Shaped Physics: Unit N - Laws of Physics are Universal (WCB Physics) Quantum Electrodynamics: Gribov Lectures on Theoretical Physics (Cambridge Monographs on Particle Physics, Nuclear Physics and Cosmology) Six Ideas That Shaped Physics: Unit R - Laws of Physics are Frame-Independent (WCB Physics) Problem-Solving Exercises in Physics: The High School Physics Program (Prentice Hall Conceptual Physics Workbook) The Physics of Sailing Explained