

Sail Performance Design And Techniques To Maximize Sail Power

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Sail Performance Design And Techniques

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Fully updated, this authoritative and richly illustrated standard reference offers the latest information on rig design, sail construction and trim, wind-sail interaction, and the structure of the wind. From his 40 years of research and wind-tunnel tests, acknowledged expert Marchaj describes how these factors affect sail power and why certain rigs are superior in power and efficiency. Accessible and nonmathematical, this major work represents the cutting-edge wisdom on sailboat performance and makes a significant contribution to our understanding of this absorbing, complex subject.

A groundbreaking technical analysis of yacht design based on cutting edge research in the field of aero-hydrodynamics.

From a racing master, all the knowledge you need to make your boat go faster and safer in any condition In Performance Sailing and Racing, Steve Colgate explains how to improve your sailing and push your boat to higher but safer speeds. He shows you how get your boat to perform as it was designed--with grace and an ease of motion--and to sail at a fast speed that can get you out of situations more quickly and arrive at your destination sooner. Used as one of the text books at the many branches of the Colgate Sailing School, Performance Sailing and Racing will help you get started in racing and improve as you learn. Even veteran sailors will pick up some new tips and tricks to becoming a successful racer. End-of-chapter quizzes reinforce what you learn so you can use your knowledge confidently on the water. Sail faster and smarter: Get the picture with clear, colorful photos and graphics Master vital topics relating to boat speed--sail trim, sheet lead angles, steering differences in light and heavy air Learn even those daunting topics, including using a spinnaker and understanding polar diagrams With this master teacher's wisdom on all the factors that make your boat sail better, you'll win the next race or just blow past the other boats in the outer harbor.

Here's the book that can get you sailing in an afternoon and keep you sailing better through a lifetime on the water This is the first sailing book that follows a sailor's ideal learning curve. Rather than tell you all about sail trim or anchoring in a

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single chapter, Robby Robinson tells you what you need to know when you want to know it. From the absolute basics to the most advanced techniques, the International Marine Book of Sailing is highly accessible--and informative--at every level. More than 500 pages and 1,000 color photos and illustrations. Covers everything from high-performance and Olympic-class sailing dinghies to coastal and offshore cruising sailboats. No matter your age or the kind of sailing you'd most like to do, this book will work for you. The easy-flowing instructional text is augmented by sidebar features giving alternative approaches, definitions of terms, and boat-to-boat variations--a uniquely effective how-to combination. Includes contributions from Nigel Calder (Boatowner's Mechanical and Electrical Manual), Beth Leonard (The Voyager's Handbook), Robert Perry (Yacht Design According to Perry), Bob Sweet (The Weekend Navigator), Charlie Wing (How Boat Things Work), and other top sailing writers. Renders sailing and seamanship more transparent and accessible than ever before. The ideal book for self-teaching.

Principles of Yacht Design has established itself as the standard book on the subject for practising designers, naval architecture students, discerning boat owners as well as the boatbuilding industry as a whole. The fifth edition is completely revised and expanded. It examines every aspect of the process of yacht and powerboat design. The new edition includes new findings from recent research in aero and hydrodynamics, as well as covering the most recent changes to building standards. The authors have used a newly built 41-foot performance cruiser to demonstrate the practical application of yacht design theory. This new edition includes photos of the building process and detailed explanations.

This book reports on cutting-edge design methods and tools in industrial engineering, advanced findings in mechanics and material science, and relevant technological applications. Topics span from geometric modelling tools to applications of virtual/augmented reality, from interactive design to ergonomics, human factors research and reverse engineering. Further topics include integrated design and optimization methods, as well as experimental validation techniques for product, processes and systems development, such as additive manufacturing technologies. This book is based on the International Conference on Design Tools and Methods in Industrial Engineering, ADM 2019, held on September 9-10, 2019, in Modena, Italy, and organized by the Italian Association of Design Methods and Tools for Industrial Engineering, and the Department of Engineering "Enzo Ferrari" of the University of Modena and Reggio Emilia, Italy. It provides academics and professionals with a timely overview and extensive information on trends and technologies in industrial design and manufacturing.

Build the fastest, most exotic sailboats around! Popular in Hawaii and throughout the South Pacific and Indian Oceans, outrigger canoes combine the romance of the South Seas with a ruthless efficiency of design and breathtaking sailing performance. This is the first book to present complete plans and building instructions for three outrigger sailing canoes. Based on traditional Hawaiian and Micronesian types, the designs are lightweight, easy to build, and screamingly fast.

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Author Gary Dierking shows you how to build these boats using stitch-and-glue and strip-planking construction, explains what tools and materials are required, how to rig and equip the boats, and more.

From the author of the bestselling *High Performance Sailing* and *Higher Performance Sailing* comes the first scientific analysis of what makes fast sailors fast. Eschewing the idea that luck or innate talent are the keys to success, Frank Bethwaite shows how knowledge truly is power. Making use of video cameras aligned to GPS read-outs to track the fastest racers, he meticulously analyses what winners do and how they do it, to show the rest of us how to get the best out of a racing craft. Frank Bethwaite's previous books were groundbreaking bibles that applied scientific theories to how sails and hulls interact with wind and water to influence boat speed. But whilst they applied scientific theories to boat construction, they didn't apply science to practical boat handling. This book fills that gap, and then goes further. Budding racers of all levels will welcome this unique book as a godsend. It will inform, instruct and enable them to employ the techniques (and timing) of the most successful racers, and make racing more competitive for participants, and more exciting for those of us watching.

Some people like to sail. Some people like to sail fast. This is a book about sailing faster. During the past few decades there has been a revolution in the way some boat designers and sailors have thought about, designed, built and sailed their boats. This book is about the new ideas which have led to these greater speeds and the faster sailing techniques which have been developed to achieve them. *High Performance Sailing* has become the standard reference work on high speed racing techniques - the bible for racing sailors, from dinghies right through to America's Cup boats. Ground-breaking in its thinking on boat speed, strategy and tactics, and timeless in its application. Now in its second edition, *High Performance Sailing* has been brought right up to date with new information, the discoveries from new boat testing and new developments.

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