

Larsson L Eliasson R E 2000 Principles Of Yacht Design Second Edition Adlard Coles Nautic

There has been a wealth of recent research on the complex changes involved in bread making and how they influence the many traits consumers use to define quality. Bread making: improving quality sums up this key research and what it means for improved process control and a better, more consistent product. After an introductory review of bread making as a whole part one discusses wheat and flour quality. Chapter 3 summarises current research on the structure of wheat, providing the context for chapters on wheat proteins (chapters 5 and 6) and starch (chapter 7). There are also chapters on ways of measuring wheat and flour quality, and improving flour for bread making. Part two reviews dough formation and its impact on the structure and properties of bread. It includes chapters on the molecular structure of dough, foam formation and bread aeration together with discussion of the role of key ingredients such as water. A final group of chapters then discusses other aspects of quality such as improving taste and nutritional properties, as well as preventing moulds and mycotoxin contamination. With its distinguished editor and international team of contributors, Bread making: improving quality is a standard work both for industry and the research community.

Proceedings of the First International Meeting of the Pancreatic Islet Study Group held in the Alicante, Spain, November 25-28 1994

This book forms part of a two-volume guide to the fundamental principles governing how and why a sailing yacht behaves in the way it does including an understanding of the physics involved and mathematical modelling.

Demonstrating the high level of maturity reached in design optimisation methodologies, this book contains most of the papers presented at the seventh international conference on Computer Aided Optimum Design of Structures.

Harmonious, integrated functioning of the whole plant system requires that its various cells, tissues and organs should be able to communicate with each other, transferring a range of information on environmental conditions, physiological and microbial stresses etc. In this volume of Advances in Botanical Research incorporating Advances in Plant Pathology three articles are concerned with different aspects of plant signalling. McDonald and Davis consider how shoot systems respond to drying and N-deficient soil, in terms of their stomatal behaviour and growth, via the transmission of root-derived chemical signals. Malone considers the major hypotheses that have been proposed with particular attention being given to hydraulic pressure signals and the hydraulic dispersal of chemical signals. At a different, intracellular level of communication, a wide variety of second messengers couple extracellular stimuli to a characteristic physiological response. Webb et al. Consider progress made in establishing similar roles for calcium in plant signalling in the context of the mammalian paradigms. The effects of UV-B radiation on plants have been extensively investigated in recent years. Jordan considers progress in understanding the chain of events from perception of UV-B to signal transduction and consequent changes in gene expression and regulation. Smith and Smith assess the various hypotheses erected over the years to explain structure and function of the host-parasite interface formed by vesticular-arbuscular (VA) mycorrhizas, an important and widespread mutualistic symbioses of a wide range of higher and some lower plants.

In 1974, a scientific conference covering marine automation group and large vessels issues was organized under the patronage of the Technical Naval Studies Centre (CETENA) and the Italian National Research Council (CNR). A later collaboration with the Marine Technical Association (ATENA) led to the renaming of the conference as NAV, extending the topics covered to the technical field previously covered by ATENA national conferences. The NAV conference is now held every 3 years, and attracts specialists from all over the world. This

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book presents the proceedings of NAV 2018, held in Trieste, Italy, in June 2018. The book contains 70 scientific papers, 35 technical papers and 16 reviews, and subjects covered include: comfort on board; conceptual and practical ship design; deep sea mining and marine robotics; protection of the environment; renewable marine energy; design and engineering of offshore vessels; digitalization, unmanned vehicles and cyber security; yacht and pleasure craft design and inland waterway vessels. With its comprehensive coverage of scientific and technical maritime issues, the book will be of interest to all those involved in this important industry.

Regions with Mediterranean-type climates include parts of California, South America, Australia, and of course, Europe. The effect of global climate change on these heavily populated areas will have major social and political ramifications. This volume addresses issues in these areas, from processes at the leaf level to the individual, ecosystem, and landscape levels. This book will serve to raise awareness on the significance of these types of ecosystems, and on their sensitivity to the threat that global change represents.

How and why does sail boat performance depend on the configuration and trim of boat and sails? This book provides the yachtsman with answers in a relatively straightforward account of the physical mechanisms of sailing. It presents an accessible overview of the fluid dynamic aspects of sailing and sailing technology, addressing both aeromechanics and hydromechanics. Readers are provided with the basic principles of physics and general mechanics that will assist their understanding of the fluid mechanics of sailing yachts. Rich appendices cover not only in-depth, mathematical-physical treatments and derivations for those wishing to explore further, but also helpful summaries of basic mathematical notions for those wishing to refresh their knowledge. This work explores keel yachts, specifically single-masted mono-hulls with 'fore-and-aft', Bermuda-rigged sails. However, much of it is applicable to other types of sailing vessels such as multi-hulls, yachts with multiple masts, windsurf boards and the like. Yachtsmen, yacht designers and professionals of sailing technology will all find something of interest in this work which provides explanations of the mechanics of sailing in a way that is scientifically justified, whilst remaining appealing to those wishing to use their knowledge on-board a sailing vessel. For some years I'm teaching a course on "Sailing Yacht Design" in the master class of yacht design. Actually, I've found your book the best one about physics of a sailing yacht I've ever read. Edward Canepa, assistant professor in Fluid Machinery at the University of Genova (Italy) ...very impressed, no wonder it took so long. It is "everything I ever wanted to know about sailing but was afraid to ask" ! Frank Woodward, former computational fluid dynamicist at the Boeing Company and Analytical Methods Inc., and a cruising yachtsman

The Maritime Engineering Reference Book is a one-stop source for engineers involved in marine engineering and naval architecture. In this essential reference, Anthony F. Molland has brought together the work of a number of the world's leading writers in the field to create an inclusive volume for a wide audience of marine engineers, naval architects and those involved in marine operations, insurance and other related fields. Coverage ranges from the basics to more advanced topics in ship design, construction and operation. All the key areas are covered, including ship flotation and stability, ship structures, propulsion, seakeeping and maneuvering. The marine environment and maritime safety are explored as well as new technologies, such as computer aided ship design and remotely operated vehicles (ROVs). Facts, figures and data from world-

leading experts makes this an invaluable ready-reference for those involved in the field of maritime engineering. Professor A.F. Molland, BSc, MSc, PhD, CEng, FRINA. is Emeritus Professor of Ship Design at the University of Southampton, UK. He has lectured ship design and operation for many years. He has carried out extensive research and published widely on ship design and various aspects of ship hydrodynamics. * A comprehensive overview from best-selling authors including Bryan Barrass, Rawson and Tupper, and David Eyres * Covers basic and advanced material on marine engineering and Naval Architecture topics * Have key facts, figures and data to hand in one complete reference book

Questo nuovo volume sulla comprensione e progettazione delle barche completa il precedente (più teorico e dedicato alla fisica della vela, allo scafo, alle appendici e al piano velico), affrontando con un approccio più pratico i materiali, i sistemi costruttivi, i calcoli e i dimensionamenti. Il volume muove dal disegno della barca, dall'idea originaria al piano esecutivo, per passare ai materiali (legno, i compositi polimerici, i metalli) e sistemi di costruzione. La terza parte è dedicata ai calcoli strutturali delle diverse parti dell'imbarcazione e ai suoi dimensionamenti. Viene così affrontata la costruzione dello scafo e della coperta, della chiglia, del timone, delle attrezzature veliche, fino ai materiali necessari per le manovre correnti. La lunga esperienza dell'autore permetta a chi legge di realizzare il sogno di costruirsi un'imbarcazione.

This reference text describes the breadmaking process at the molecular level, based on surface and colloidal science and introducing colloidal science with a minimum of theory.;Reviewing the current molecular and colloidal knowledge of the chain from wheat grain to bread, the book: discusses the structure of the dough, how a foam is formed during fermentation and how starch gelatinization induces the formation of an open-pore network, such as the bread crumb; covers new results on the gluten structure in bulk and at interfaces, as well as on phase separation in the dough; presents a complete model of all structural transitions from dough mixing to the formation of a bread; details the physicochemical properties of proteins, lipids and carbohydrates in wheat and other cereals, and considers their modes of interaction; and explores recent progress in the shape of biomolecular assemblies, derived from forces and curvature at interfaces.;The text provides nearly 850 citations from the reference literature.

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 fourth edition is completely revised and expanded and follows the design from scratch of a completely new yacht including all new computer-generated explanatory illustrations. As such, it examines every aspect of the process of yacht and powerboat design. The authors have used a newly designed 41 foot performance cruiser to demonstrate the practical application of yacht design theory. Beginning with the yacht's specifications, the authors examine the vital topics of aero and hydrodynamics and conclude with practical matters such as the layout of the cockpit, deck and cabin, and provide a complete weight calculation for the boat. 'This book is deeply fascinating . . . a must.' Classic Boat 'The standard book on the subject for practising designers, naval architecture students, discerning boat owners and the boatbuilding industry as a whole.' Yachting Life (May 2007) 'A definitive work on yacht design.' Cruising

This second edition provides a comprehensive and scientific approach to evaluating ship resistance and propulsion. Written by experts in the field, it includes the latest developments in CFD, experimental techniques and guidance for the practical estimation of ship propulsive power. It addresses improvements in energy efficiency and reduced emissions, and the introduction of the Energy Efficiency Design Index (EEDI). Descriptions have now been included of pump jets, rim driven propulsors, shape adaptive foils, propeller noise and dynamic positioning. Trial procedures have been updated, and preliminary estimates of power for hydrofoil craft, submarines and AUVs are incorporated. Standard series data for hull resistance and propeller performance are included, enabling practitioners to make ship power predictions based on material and data within the book. Numerous fully worked examples illustrate applications for most ship and small craft types, making this book ideal for practising engineers, naval architects, marine engineers and undergraduate and postgraduate students.

As a result of the key advances made more than 30 years ago, specifically the ability to isolate islets of Langerhans from the pancreas, the ability to measure insulin accurately by immunoassay, and the development of microchemical techniques for studying cells and their components, many research volumes, symposium reports, and original papers have been produced. This explosion of interest has probably had at least three stimuli: 1. the inherent scientific interest in understanding secretion of the pancreatic β -cell 2. the β -cells relevance to a very common disease 3. the availability of funding from specific sources related to diabetes research, for instance, Juvenile Diabetes Foundation International and the British Diabetic Association. As a result of all this activity, detailed scientific literature including research reviews are readily available. Surprisingly enough, there are relatively few attempts to summarize this great bulk of knowledge in a way that is accessible to the newcomer to this field and this book is intended to bridge this gap.

This highly comprehensive, introductory book explains the basics of structural health monitoring aspects of composite structures. This book serve as an all-in-one reference book in which the reader can receive a basic understanding of composite materials, manufacturing methods, the latest types of optical fiber sensors used for structural health monitoring of composite structures, and demonstrated applications of the use of fiber sensors in a variety of composite material structures. The content draws upon the authors' and distinguished contributors' extensive research/teaching and industrial experience to fully cover the structural health monitoring of composite materials using fiber optic sensing methods.

When new fellows join my lab, I give them some reading materials so that they can orient themselves in their assignment in a new eld. When fellows leave my lab, some after writing their dissertations, I prefer to give them a book as a symbolic present. I was longing for a book that contained something on more or less eve- thing about the islets. At the same time, I wished it contained information as recent as possible. There are a few such books in the market but they are pretty outdated. I started picking islets myself from October 1990, when I joined the Rolf Luft Center, Karolinska Institutet. Over the years my fascination for islet research remained high. Since last year, I felt a stronger urge to do more for these mysterious and hidden mini-organs that are directly or indirectly involved in the pathogenesis of all forms of diabetes that affects ?250 million people in the world. After I launched the Islet (landesbioscience.com/journals/islets) and founded the Islet Society (isletso-ety.org), there was a momentum that could be utilized to create something equally meaningful i. e. this book. The idea cracked in September 2008. Starting September 19, 2008, I contacted an estimated

90% of the authors who published anything on the islets during 2007–2008 and who could be traced from the internet.

This handbook is the definitive reference for the interdisciplinary field that is ocean engineering. It integrates the coverage of fundamental and applied material and encompasses a diverse spectrum of systems, concepts and operations in the maritime environment, as well as providing a comprehensive update on contemporary, leading-edge ocean technologies. Coverage includes an overview on the fundamentals of ocean science, ocean signals and instrumentation, coastal structures, developments in ocean energy technologies and ocean vehicles and automation. It aims at practitioners in a range of offshore industries and naval establishments as well as academic researchers and graduate students in ocean, coastal, offshore and marine engineering and naval architecture. The Springer Handbook of Ocean Engineering is organized in five parts: Part A: Fundamentals, Part B: Autonomous Ocean Vehicles, Subsystems and Control, Part C: Coastal Design, Part D: Offshore Technologies, Part E: Energy Conversion

Covering key topics in the field such as technological innovation, human-centered sustainable engineering and manufacturing, and manufacture at a global scale in a virtual world, this book addresses both advanced techniques and industrial applications of key research in interactive design and manufacturing. Featuring the full papers presented at the 2014 Joint Conference on Mechanical Design Engineering and Advanced Manufacturing, which took place in June 2014 in Toulouse, France, it presents recent research and industrial success stories related to implementing interactive design and manufacturing solutions.

This book constitutes the thoroughly refereed post-conference proceedings of the 4th and 5th International Congress on Sports Science Research and Technology Support, icSPORT 2016 and 2017, held respectively in Porto, Portugal, on November 7-9, 2016 and in Funchal, Madeira, Portugal, on October 30-31, 2017. The 13 revised full papers (7 papers in 2016 and 6 papers in 2017) along with 1 short paper presented were carefully reviewed and selected from 93 submissions (53 in 2016 and 40 in 2017). The papers cover the following topics: signal processing and motor behavior; neuromuscular physiology; sports medicine and support technology; physiotherapy and rehabilitation; health, sports performance and support technology; applied physiology and exercise; computer systems in sports; computer supported training and decision support systems.

A comprehensive overview of the inherent properties, chemical and biochemical functions, actions for lowering the risks of cardiovascular and infectious diseases and cancers, and underlying mechanisms of tea polyphenols. It reveals the bioantimutagenic potency of epigallocatechin gallate (EGCg) found in green tea.

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

In a world of increasing atmospheric CO₂, there is intensified interest in the ecophysiology of photosynthesis and increasing attention is being given to carbon exchange and storage in natural ecosystems. We need to know how much photosynthesis of terrestrial and aquatic vegetation will change as global CO₂ increases. Are there major ecosystems, such as the boreal forests, which may become important sinks of CO₂ and slow down the effects of anthropogenic CO₂ emissions on climate? Will the composition of the vegetation change as a result of CO₂ increase? This volume reviews the progress which has been made in understanding photosynthesis in the past few decades at several levels of integration from the molecular level to canopy, ecosystem and global scales.

Written from a practical, problem-solving perspective, this reference explores advances in mass spectrometry, sample preparation, gas chromatography (GC)-olfactometry, and electronic-nose technology for food, cosmetic, and pharmaceutical applications. The book discusses the chemical structures of key flavor and fragrance compounds and contains

numerous examples and chromatograms and emphasizes novel solid-phase microextraction procedures. It includes coverage of isolation and concentration of odor impact chemicals prior to GC manipulation; time-of-flight mass spectrometers and electronic-nose instrumentation; how to identify chemicals responsible for flower scents; and more.

This open access book gathers contributions presented at the International Joint Conference on Mechanics, Design Engineering and Advanced Manufacturing (JCM 2020), held as a web conference on June 2-4, 2020. It reports on cutting-edge topics in product design and manufacturing, such as industrial methods for integrated product and process design; innovative design; and computer-aided design. Further topics covered include virtual simulation and reverse engineering; additive manufacturing; product manufacturing; engineering methods in medicine and education; representation techniques; and nautical, aeronautics and aerospace design and modeling. The book is organized into four main parts, reflecting the focus and primary themes of the conference. The contributions presented here not only provide researchers, engineers and experts in a range of industrial engineering subfields with extensive information to support their daily work; they are also intended to stimulate new research directions, advanced applications of the methods discussed and future interdisciplinary collaborations.

This book contains technical papers, presented at the third Canadian International Conference on Composites held in Canada in 2001, on topics including liquid composite molding, process modelling, virtual manufacturing, novel materials and processes, and metal matrix composites. The marine environment presents significant challenges for materials due to the potential for corrosion by salt water, extreme pressures when deeply submerged and high stresses arising from variable weather. Well-designed fibre-reinforced composites can perform effectively in the marine environment and are lightweight alternatives to metal components and more durable than wood. Marine Applications of Advanced Fibre-Reinforced Composites examines the technology, application and environmental considerations in choosing a fibre-reinforced composite system for use in marine structures. This book is divided into two parts. The chapters in Part One explore the manufacture, mechanical behavior and structural performance of marine composites, and also look at the testing of these composites and end of life environmental considerations. The chapters in Part Two then investigate the applications of marine composites, specifically for renewable energy devices, offshore oil and gas applications, rigging and sails. Underwater repair of marine composites is also reviewed. Comprehensively examines all aspects of fibre-reinforced marine composites, including the latest advances in design, manufacturing methods and performance Assesses the environmental impacts of using fibre-reinforced composites in marine environments, including end of life considerations Reviews advanced fibre-reinforced composites for renewable energy devices, rigging, sail textiles, sail shape optimisation and offshore oil and gas applications Highlights the latest scientific and technological advances, from inventions and discoveries to mathematics, medicine and biology, to the science behind everyday objects, while providing a history of technology.

The Definitive, Up-to-Date, Student-Friendly Guide to Separation Process Engineering—With More Mass Transfer Coverage and a New Chapter on Crystallization Separation Process Engineering, Fourth Edition, is the most comprehensive, accessible guide available on modern separation processes and the fundamentals of mass transfer. In this completely updated edition, Phillip C. Wankat teaches each key concept through detailed, realistic examples using real data—including up-to-date simulation practice and spreadsheet-based exercises. Wankat thoroughly covers each separation process, including flash, column, and batch distillation; exact calculations and shortcut methods for multicomponent distillation; staged and packed column design; absorption; stripping; and more. This edition provides expanded coverage of mass transfer and diffusion, so faculty can cover separations and mass transfer in one course.

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Detailed discussions of liquid-liquid extraction, adsorption, chromatography, and ion exchange prepare students for advanced work. Wankat presents coverage of membrane separations, including gas permeation, reverse osmosis, ultrafiltration, pervaporation, and applications. An updated chapter on economics and energy conservation in distillation adds coverage of equipment costs. This edition contains more than 300 new, up-to-date homework problems, extensively tested in undergraduate courses at Purdue University and the University of Canterbury (New Zealand). Coverage includes New chapter on crystallization from solution, including equilibrium, chemical purity, crystal size distribution, and pharmaceutical applications Thirteen up-to-date Aspen Plus process simulation labs, adaptable to any simulator Eight detailed Aspen Chromatography labs Extensive new coverage of ternary stage-by-stage distillation calculations Fraction collection and multicomponent calculations for simple batch distillation New mass transfer analysis sections on numerical solution for variable diffusivity Mass transfer to expanding or contracting objects, including ternary mass transfer Expanded coverage of pervaporation Updated Excel spreadsheets offering more practice with distillation, diffusion, mass transfer, and membrane separation problems

"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

This book gathers papers presented at the International Joint Conference on Mechanics, Design Engineering and Advanced Manufacturing (JCM 2016), held on 14-16 September, 2016, in Catania, Italy. It reports on cutting-edge topics in product design and manufacturing, such as industrial methods for integrated product and process design; innovative design; and computer-aided design. Further topics covered include virtual simulation and reverse engineering; additive manufacturing; product manufacturing; engineering methods in medicine and education; representation techniques; and nautical, aeronautics and aerospace design and modeling. The book is divided into eight main sections, reflecting the focus and primary themes of the conference. The contributions presented here will not only provide researchers, engineers and experts in a range of industrial engineering subfields with extensive information to support their daily work; they are also intended to stimulate new research directions, advanced applications of the methods discussed, and future interdisciplinary collaborations.

Now available in paperback, the Encyclopedia of International Sports Studies is the most authoritative and comprehensive single-volume reference work ever published on sport. With over one million words of text arranged into more than 1000 entries and articles, it covers the full range of sub-disciplines within sports studies; including

scientific, social scientific and medical approaches. The encyclopedia is alphabetically organized and consists of: principal articles covering key disciplinary areas, such as sports economics and sports history large topical entries on central subjects such as resistance training and the diagnosis of sports injuries smaller topical entries on subjects such as cross training and projectile motion short overviews of other important terms and concepts, from metabolism and motivation to muscle tension-length relationship. With over 150 contributing authors from the US, UK, Canada, Australia, South Africa, Japan, New Zealand, Hong Kong and continental Europe, the Encyclopedia of International Sports Studies is an unparalleled work of sports scholarship. Accessibly written, facts-fronted and including full cross-referencing and guides to further reading throughout, this is an essential addition to the bookshelf of any student, researcher, teacher or professional working in sport.

Business Model Generation is a handbook for visionaries, game changers, and challengers striving to defy outmoded business models and design tomorrow's enterprises. If your organization needs to adapt to harsh new realities, but you don't yet have a strategy that will get you out in front of your competitors, you need Business Model Generation. Co-created by 470 "Business Model Canvas" practitioners from 45 countries, the book features a beautiful, highly visual, 4-color design that takes powerful strategic ideas and tools, and makes them easy to implement in your organization. It explains the most common Business Model patterns, based on concepts from leading business thinkers, and helps you reinterpret them for your own context. You will learn how to systematically understand, design, and implement a game-changing business model--or analyze and renovate an old one. Along the way, you'll understand at a much deeper level your customers, distribution channels, partners, revenue streams, costs, and your core value proposition. Business Model Generation features practical innovation techniques used today by leading consultants and companies worldwide, including 3M, Ericsson, Capgemini, Deloitte, and others. Designed for doers, it is for those ready to abandon outmoded thinking and embrace new models of value creation: for executives, consultants, entrepreneurs, and leaders of all organizations. If you're ready to change the rules, you belong to "the business model generation!"

Pancreatic B Cell Biology in Health and Disease, Volume 360 presents the latest release in this ongoing series on the novel and widely studied physiology of pancreatic cells in homeostasis and under pathogenic conditions. This new volume includes new chapters on a variety of topics, including Pancreatic Beta Cell Dysfunction in Type 1 Diabetes: The Role of Ifn, Sexual Hormones and Diabetes: The Impact in Pancreatic Beta Cell, Pancreatic Beta Cell Dysfunction in Monogenic Diabetes, The Role of MiRNAs In Beta Cell Function, Pancreatic Beta Cell: How Environmental Endocrine Disruptors Alter Its Function, Enteroviral Infections and Pancreatic Beta Cell Dysfunction, and more. Final sections cover Long Non-Coding Rna-Regulated Pathways in Pancreatic Beta Cell: Their Role in Diabetes and Pancreatic Beta Cell Biology in Health and Disease. Provides updated and extensive review articles that focus on different aspects of pancreatic cell biology Offers a wide range of perspectives for basic and translational research Includes original figures that help readers understand the complex pathways involved in cell function in homeostasis and under pathogenic conditions

List of members in each volume.

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"The Science of Sailing", met als ondertitel "A Complete Guide to the Physics of Sailing and the Naval Architecture Governing the Performance of Sailing Yachts" betreft een serie boeken over de wetenschap van het zeilen en het ontwerp en het gedrag van zeilende vaartuigen. Het eerste deel met als aparte titel "The Attainable Speed Under Sail" behandelt, naast veel basiskennis, de snelheid van diverse typen zeilende vaartuigen (voornamelijk kleine en grote zeiljachten). De basis daarvan is een wiskundig model dat de krachten op de zeilen en op de onderwater romp, kiel en roer in rekening brengt.

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