

The Encyclopedia Of Yacht Designers

The Encyclopedia Of Yacht Designers The Encyclopedia of Yacht Designers The encyclopedia of yacht designers serves as an essential resource for boating enthusiasts, maritime historians, naval architects, and anyone interested in the art and science of yacht design. This comprehensive compendium offers detailed profiles of influential designers, their design philosophies, iconic vessels, and contributions to the evolution of yachting. It provides insight into the technical, aesthetic, and innovative aspects of yacht construction, reflecting the rich history and dynamic advancements within the industry. Whether exploring the legacy of legendary figures or understanding contemporary design trends, this encyclopedia functions as a vital repository of knowledge that celebrates the creativity and engineering prowess behind some of the most stunning and seaworthy vessels ever built. --- The Role and Significance of Yacht Designers The Art and Science of Yacht Design Yacht designers operate at the intersection of artistry and engineering. They craft vessels that are not only seaworthy and efficient but also aesthetically captivating. Their work involves a complex balance of factors such as hydrodynamics, structural integrity, materials science, and interior layout, all tailored to meet the specific needs and desires of clients ranging from casual sailors to professional racers and luxury charter operators. Impact on Maritime Culture and Innovation Throughout history, renowned yacht designers have influenced maritime culture, pushing the boundaries of technology and design. Their innovations have led to faster, more comfortable, and more environmentally friendly yachts, shaping the evolution of recreational and competitive sailing. The designs they produce often set industry standards and inspire future generations of naval architects. --- Historical Overview of Yacht Design Origins and Early Pioneers The roots of yacht design date back centuries, with early vessels primarily built for trade, exploration, and leisure among aristocracy. In the 19th century, the advent of recreational sailing prompted the emergence of dedicated yacht designers who began to formalize principles of hull shape, rigging, and materials. The Golden Age of Yacht Design The late 19th and early 20th centuries marked a golden age characterized by pioneering designers such as Nathanael Herreshoff and William Fife. Their innovative craftsmanship and engineering led to iconic racing yachts and luxurious cruising vessels that remain celebrated today. Modern Innovations and Trends In the contemporary era, technological advancements like computer-aided design (CAD), composite materials, and hydrodynamic modeling have revolutionized yacht design. Modern designers integrate sustainability practices and advanced propulsion systems, reflecting shifting priorities and environmental concerns. --- Notable Yacht Designers and Their Contributions Legendary Figures in Yacht Design Nathanael Herreshoff - Known as the "Wizard of Bristol," Herreshoff was instrumental in pioneering early racing yacht designs. - Developed innovative hull forms, including the 2 famous America's Cup defenders. - His work laid foundational principles for modern yacht aerodynamics and hydrodynamics. William Fife - A Scottish designer renowned for elegant racing yachts and cruising yachts. - His designs emphasized aesthetic beauty alongside performance. - Created some of the most iconic vessels of the early 20th century, such as the "Carmelita." Olin Stephens - Co-founder of Sparkman & Stephens, a leading yacht design firm. - Contributed to the development of high-performance racing yachts in the mid-20th century. - Known for designing the successful J-class yachts and cruising yachts. Contemporary Influential Designers Philippe Briand - A French naval architect renowned for innovative superyacht designs. - Emphasizes sustainability and technological integration. - Notable projects include the superyacht "Venus" and collaborations with luxury brands. Germán Frers - An Argentine

designer celebrated for elegant cruising yachts and racing boats. - Focuses on blending performance with aesthetic appeal. - His designs include renowned models from brands like Ferretti and Swan. ---

Design Principles and Techniques

Hull Design and Hydrodynamics - The hull shape influences speed, stability, and handling. - Designers utilize computational fluid dynamics (CFD) to optimize hull performance. - Different hull types include displacement, planing, and semi-displacement designs.

Rigging and Sail Plan - Rig configuration impacts maneuverability and power. - Choices include sloop, cutter, schooner, ketch, and others, each suited to different sailing conditions.

Materials and Construction - Traditional materials: wood, steel. - Modern materials: fiberglass, carbon fiber, composites. - Material selection affects weight, durability, and maintenance.

Interior Design and Comfort - Encompasses luxury accommodations, storage, and functionality. - Interior layouts are tailored to client preferences, integrating technology and aesthetics seamlessly. ---

Categories of Yacht Design

Racing Yachts - Designed for speed and agility. - Focus on lightweight construction and streamlined hulls. - Examples include America's Cup defenders and Olympic class vessels.

Cruising Yachts - Prioritize comfort, stability, and long-distance capability. - Range from small motor yachts to large expedition vessels.

Superyachts and Mega Yachts - Over 80 feet (24 meters) in length. - Emphasize luxury, customization, and technological sophistication. - Often involve collaborative design processes with specialized yacht architects.

Classic and Traditional Yachts - Reflect historic styles and craftsmanship. - Maintain traditional hull shapes and rigging, often restored or built as bespoke vessels. ---

The Process of Yacht Design

Client Consultation and Requirement Analysis - Understanding the client's needs, preferences, and intended use. - Establishing performance goals and budget constraints.

Concept Development - Sketching initial ideas and creating conceptual models. - Evaluating hull forms, rigging, and overall aesthetics.

Design Refinement - Using CAD software and hydrodynamic testing. - Fine-tuning structural and performance aspects.

Construction and Testing - Collaborating with shipyards during build. - Conducting sea trials to validate design performance. ---

The Future of Yacht Design

Technological Advancements - Integration of AI and machine learning for optimization. - Use of virtual reality (VR) for immersive design visualization. - Implementation of autonomous systems and smart technology.

Sustainability and Environmental Concerns - Adoption of eco-friendly materials. - Development of hybrid and fully electric propulsion systems. - Designing for reduced emissions and waste management.

Customization and Personalization - Increasing demand for bespoke yachts tailored to individual tastes. - Use of modular and adaptive design features. ---

Resources and Further Reading

Notable Publications - "Yacht Design Explained" by Steve Killing - "The Naval Architecture of Yacht Design" by William F. Gibbs - "The Superyacht Designer" by David Carpenter

Organizations and Associations - Royal Institution of Naval Architects (RINA) - International Superyacht Society (ISS) - Society of Naval Architects and Marine Engineers (SNAME)

Museums and Exhibitions - The Herreshoff Marine Museum - The National Maritime Museum (UK) - The Museum of Yachting (USA) ---

Conclusion The encyclopedia of yacht designers encapsulates the rich history, diverse expertise, and ongoing innovations that define the world of yachting. From pioneering craftsmen of the past to cutting-edge modern architects, each designer contributes uniquely to the art and science of creating vessels that combine beauty, performance, and functionality. As technological advances continue to shape the industry, the role of yacht designers remains vital in pushing the boundaries of what is possible on the water. Whether for racing, leisure, or luxury, these designers craft more than just boats—they shape experiences, inspire exploration, and leave lasting legacies in maritime history.

Question/Answer What is 'The Encyclopedia of Yacht Designers'? 'The Encyclopedia of Yacht Designers' is a comprehensive reference book that catalogs the profiles, works, and histories of notable yacht designers from around the world, serving as an essential resource for enthusiasts and professionals alike. Who is the author of 'The Encyclopedia of

Yacht Designers'? The encyclopedia was authored by Frederic P. Rose, a renowned maritime historian and expert in yacht design. How is 'The Encyclopedia of Yacht Designers' organized? The book is organized alphabetically by designer's name, featuring detailed biographies, design philosophies, notable yachts, and contributions to the maritime industry. Does 'The Encyclopedia of Yacht Designers' include contemporary designers? Yes, it covers both historical and contemporary yacht designers, providing insights into modern yacht design trends and influential figures. Can I find information about famous yacht designers like William Fife or Olin Stephens in this encyclopedia? Absolutely, the encyclopedia includes profiles of legendary designers such as William Fife, Olin Stephens, and many others who have significantly impacted yacht design. 4 Is 'The Encyclopedia of Yacht Designers' useful for boat building professionals? Yes, it serves as a valuable resource for boat builders, designers, historians, and collectors seeking detailed information on yacht design evolution and key figures. Where can I purchase or access 'The Encyclopedia of Yacht Designers'? The encyclopedia is available through major booksellers, maritime bookstores, and online platforms like Amazon or specialized maritime archives. Are there digital or online editions of 'The Encyclopedia of Yacht Designers'? While primarily published as a printed book, some digital versions or supplementary databases may be available through maritime research websites or specialized digital libraries. How has 'The Encyclopedia of Yacht Designers' contributed to yacht history research? It has become a foundational resource, offering detailed insights that help researchers, historians, and enthusiasts trace the development of yacht design and its influential figures. Is 'The Encyclopedia of Yacht Designers' suitable for beginners in yacht design? While it provides in-depth information valuable for all levels, it is most beneficial for readers with some background in maritime topics due to its detailed profiles and technical content.

Encyclopedia of Yacht Designers: Navigating the Masters Behind the World's Most Iconic Yachts

The world of yachting is a fascinating blend of artistry, engineering, and innovation. At the heart of every magnificent vessel lies the vision and expertise of a yacht designer—those talented individuals whose creativity and technical prowess bring dreams to life on the water. An encyclopedia of yacht designers serves as an invaluable resource, offering a comprehensive overview of the pioneers, innovators, and current leaders shaping the industry worldwide. In this article, we delve deep into this essential compendium, exploring its significance, the profiles it contains, and the impact of these designers on the yachting landscape. ---

The Significance of a Yacht Designer Encyclopedia

The landscape of yacht design is as diverse as the vessels it produces. From sleek racing sailboats to luxurious superyachts, each craft reflects the unique philosophy, technical mastery, and aesthetic sensibilities of its creator. An encyclopedia dedicated to yacht designers functions as a critical reference tool for enthusiasts, industry professionals, historians, and prospective clients seeking to understand the lineage and innovation within the field. Why is such an encyclopedia indispensable?

- **Historical Context:** It documents the evolution of yacht design, highlighting influential figures who have shaped modern aesthetics and engineering principles.
- **Technical Expertise:** It offers insights into various design philosophies, materials, and construction techniques employed across different eras and styles.
- **Recognition of Pioneers:** It honors the careers and contributions of designers, fostering appreciation and understanding of their craft.
- **Educational**

The Encyclopedia Of Yacht Designers 5 Resource:

It serves as a learning platform for aspiring designers, students, and industry veterans seeking to expand their knowledge.

- **Market Guidance:** For clients and investors, it helps identify designers whose styles and specialties align with their vision.

--- Core Components of the Encyclopedia

An extensive yacht designer encyclopedia is structured to provide detailed, organized information. The core components typically include:

Biographies and Career Highlights

This section offers comprehensive profiles of each designer, including:

- **Background and Education:** Education history, early influences, and entry into yacht

design. - Career Trajectory: Key milestones, firms founded or worked for, and notable collaborations. - Design Philosophy: A succinct overview of their aesthetic and technical approach. - Major Works: Detailed descriptions of their most iconic yachts, including specifications, innovations, and awards received. - Legacy and Influence: Their contribution to the industry, mentorship roles, and how they've inspired future generations.

Design Styles and Specializations

Yacht designers often develop distinctive styles or focus on particular types of vessels:

- **Luxury Superyachts:** Emphasizing opulence, comfort, and bespoke craftsmanship.
- **Racing Yachts:** Prioritizing speed, aerodynamics, and lightweight construction.
- **Explorer Yachts:** Combining robustness with long-range capabilities.
- **Catamarans and Multihulls:** Innovating with stability and interior space.
- **Classic and Traditional Designs:** Preserving historical styles with modern techniques.

This classification helps users understand the niche strengths of each designer and match them with project requirements.

Design Philosophy and Techniques

Details about a designer's approach include:

- **Aesthetic Principles:** Use of lines, proportions, and materials.
- **Engineering Innovations:** Use of new hull shapes, propulsion systems, or structural materials.
- **Environmental Considerations:** Incorporation of sustainable technologies and energy efficiency.
- **Customization and Client Collaboration:** How designers tailor vessels to individual preferences.

Visual Portfolio

High-quality images and sketches illustrate the evolution of a designer's style, showcasing:

- Concept sketches
- Detailed renderings
- Photographs of completed yachts

This visual element enhances understanding and appreciation of their craft.

The Encyclopedia Of Yacht Designers 6 Awards and Recognitions

Recognizing industry accolades such as:

- The World Superyacht Awards
- The Naval Architecture Awards
- Design distinctions by yacht associations

These attest to the designer's reputation and influence.

Notable Yacht Designers and Their Contributions

The encyclopedia covers an extensive roster of designers, from historical legends to contemporary innovators. Below, we explore some of the most influential figures:

- **William Fife III**
 - Era: Early 20th century
 - Specialty: Classic racing yachts
 - Legacy: Fife's designs set standards for elegance and performance; vessels like *Shamrock V* remain iconic.
- **Olin Stephens**
 - Era: Mid-20th century
 - Specialty: J-Class racing yachts
 - Contributions: Co-founder of Sparkman & Stephens, his work revolutionized racing yacht design, producing classics like *Ranger* and *Intrepid*.
- **Jon Bannenberg**
 - Era: 1960s–1980s
 - Specialty: Luxury motor yachts
 - Innovations: Known for pioneering sleek, modern aesthetics and innovative interiors, shaping modern superyacht luxury.
- **Feadship's Designers (e.g., De Voogt Naval Architects)**
 - Focus: Superyacht engineering and design
 - Impact: Their meticulous craftsmanship and cutting-edge technology have earned numerous awards, influencing industry standards.
- **Current Leaders:** Philippe Starck, Espen Øino, and Nuvolari Lenard
 - **Philippe Starck:** Merging art and function, known for avant-garde interiors and exterior designs.
 - **Espen Øino:** Renowned for large, opulent mega-yachts with innovative silhouettes.
 - **Nuvolari Lenard:** Combining elegance with performance, specializing in distinctive superyacht exteriors.

The Evolution of Yacht Design Through the Encyclopedia

By examining the profiles and works of various designers, the encyclopedia reveals how trends and technological advances have transformed yacht design:

- **From Wood to Composite Materials:** Transition driven by innovations in materials science.
- **Aesthetic Shifts:** Moving from ornate, traditional lines to sleek, minimalist modern designs.

The Encyclopedia Of Yacht Designers 7 Technological Integration

Incorporation of hybrid propulsion, zero-emission systems, and smart navigation.

- **Customization and Personalization:** Increasing demand for bespoke vessels tailored to individual tastes.

This historical perspective underscores the dynamic nature of yacht design and the pivotal role of designers in shaping maritime culture.

How to Use the Yacht Designer Encyclopedia Effectively

For enthusiasts and industry professionals alike, leveraging the encyclopedia involves:

- **Researching Design Styles:** To identify designers whose aesthetic aligns with your vision.
- **Understanding Industry Trends:** Tracking how

design philosophies evolve over time. - Networking and Collaboration: Using profiles to connect with designers for potential projects. - Educational Purposes: Gaining insights into technical and artistic aspects of yacht design. - Market Analysis: Assessing the reputation and portfolio of designers for investment decisions. --- Conclusion: Navigating the World of Yacht Design An encyclopedia of yacht designers is more than just a directory; it is a curated chronicle of innovation, artistry, and technical mastery. It encapsulates the stories of visionaries whose work has defined and redefined what it means to craft a vessel that is not only a means of transportation but a floating work of art and engineering marvel. Whether you are an aspiring designer, a seasoned industry veteran, a prospective yacht owner, or simply an enthusiast, this comprehensive resource offers invaluable insights into the personalities and philosophies behind the world's most extraordinary yachts. As the industry continues to evolve—with advancements in sustainability, automation, and design aesthetics—the encyclopedia will remain an essential reference, guiding future innovations and honoring the legacy of those who have shaped the art of yacht design. Embark on your own journey through the world of yacht design—discover the masters behind the sails and hulls that inspire awe across oceans worldwide. yacht design, naval architecture, boat builders, sailing yachts, motor yachts, yacht construction, yacht plans, yacht engineering, ship design, maritime architecture

Principles of Yacht DesignElements of Yacht DesignYacht design handbookElements of Yacht DesignElements of Yacht DesignYacht Design ExplainedAn Introduction to Yacht DesignThe Common Sense of Yacht DesignYachtmanship in the Golden Age of YachtingYacht Design According to Perry (PB)Hints to beginners in amateur yacht designingElements of Yacht Design (Classic Reprint)Advances in Mechanical DesignUnderstanding Boat DesignMaritime Technology and Engineering 5 Volume 1Human Factors and Ergonomics in Consumer Product DesignG. L. WatsonYacht ArchitectureUnderstanding Yacht DesignThe Elements of Boat Strength: For Builders, Designers, and Owners Lars Larsson Norman L. Skene Massimo Gregori Grgic Norman Locke Skene Norman L. Skene Steve Killing A. A. Symonds Lewis Francis Herreshoff Pasquale De Marco Robert H. Perry Tyrrel E. Biddle Norman L. Skene Jianrong Tan Edward S. Brewer Carlos Guedes Soares Waldemar Karwowski Martin Black Dixon Kemp Ian Nicolson Dave Gerr Principles of Yacht Design Elements of Yacht Design Yacht design handbook Elements of Yacht Design Elements of Yacht Design Yacht Design Explained An Introduction to Yacht Design The Common Sense of Yacht Design Yachtmanship in the Golden Age of Yachting Yacht Design According to Perry (PB) Hints to beginners in amateur yacht designing Elements of Yacht Design (Classic Reprint) Advances in Mechanical Design Understanding Boat Design Maritime Technology and Engineering 5 Volume 1 Human Factors and Ergonomics in Consumer Product Design G. L. Watson Yacht Architecture Understanding Yacht Design The Elements of Boat Strength: For Builders, Designers, and Owners *Lars Larsson Norman L. Skene Massimo Gregori Grgic Norman Locke Skene Norman L. Skene Steve Killing A. A. Symonds Lewis Francis Herreshoff Pasquale De Marco Robert H. Perry Tyrrel E. Biddle Norman L. Skene Jianrong Tan Edward S. Brewer Carlos Guedes Soares Waldemar Karwowski Martin Black Dixon Kemp Ian Nicolson Dave Gerr*

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

reprint of the original first published in 1904

a useful instrument for yacht design students and an enjoyable reading for boat builders and boat owners who want to learn more about their yachts an overall check of all yacht design aspects with useful suggestions and a few tricks of the trade

this book is intended to be a practical and concise presentation of some of the operations involved in designing yachts of all types cumbersome and impractical methods which are so often found in more pretentious works on naval architecture have been avoided those presented have been in everyday use by the author thus wrote norman l skene in the preface to the fifth edition of elements of yacht design skene s is one of the most famous books on yacht design ever written first published in 1904 skene did several revisions the last of which was published in 1938 and is reprinted here in its original form in 1962 the book was completely revised by francis s kinney and republished as skene s elements of yacht design kinney s last version was published in 1973 and it is long out of print while the experts are divided on the relative merits of the different editions it appears that there is strong demand for skene s original work at last the book is again available to the many boatbuilders aspiring naval architects and sailors who need it for frequent reference the index has been completely revised and expanded to make it more useful for today s readers

the first guide to design aimed at every sailor the authors examine a range of boats from a 14 foot dinghy to a 40 foot cruiser a catamaran to an offshore singlehander to show what makes hulls keels ballast rudders foils masts and sails work their explanations include state of the art graphics dynamic charts and photographs

this book is a comprehensive guide to building yachts for beginners while there is plenty written for the experienced boat builder this little book sets out the features of yacht design for those whose interest is just beginning part i is dedicated to theory and construction including chapters on laws of hydrostatics conventions in the drawing of yachts speed accommodation and cost hull form sail plans and others the second part is focused on the practice of design with chapters on drawing calculations analysis of hull form design rules and theories

yachtmanship in the golden age of yachting delves into the captivating world of yachting during its golden age a period of unprecedented innovation elegance and sporting competition from the mid 19th century to the early 20th century yachting evolved rapidly driven by technological advancements and a passion for adventure the america s cup the oldest international sporting trophy played a pivotal role in shaping yacht design leading to the development of faster more sophisticated vessels this book explores the art and science behind yacht design revealing the intricate interplay between naval architecture aesthetics and performance it delves into the materials methods and systems that contribute to a yacht s structural integrity safety and efficiency the practice of yachtmanship is examined in detail covering the essential skills knowledge and etiquette required to navigate and handle a yacht safely and skillfully the challenges and rewards of yachting are explored from the exhilaration of competitive racing to the serene pleasures of cruising the book also sheds light on the cultural significance of yachting its impact on society and the communities that have emerged around this shared passion it examines the economic environmental and tourism aspects of yachting highlighting its role in coastal economies and the growing awareness of sustainability yachtmanship in the golden age of yachting provides a comprehensive overview of the golden age of yachting offering insights into the design construction and operation of these magnificent vessels whether you are a seasoned yachtsman a history buff or simply fascinated by the allure of the sea this

book promises an engaging and informative journey into the world of yachting if you like this book write a review

a great designer offers you a virtuoso tour through the world of sailboats bob perry initiated the trend toward fast voyaging sailboats with his world famous valiant 40 which has been in production longer than any other cruising sailboat in history but perry is not only a leading yacht designer he is also an accomplished wordsmith whose blunt insightful irreverent and always entertaining boat reviews have captivated readers of sailing magazine for 24 years this book is vintage perry a no holds barred tour of the world of yacht design through the benchmark boats of his 30 year career

excerpt from elements of yacht design this book is intended to be a concise and practical presentation of the processes involved in designing a modern yacht there is at present an almost utter lack of material of this character which is in accord with modern american practice and it is thought that the book may find a useful place among works on yacht architecture it is intended to be thoroughly practical in character all mathematics and theoretical presentations having been eliminated as far as possible so that the operations may be readily grasped by men without technical education a special feature of the book is the series of curves on plates vi vii viii and ix for determining the proportions of sailing yachts of various sizes these have been prepared by the writer from data on a large number of yachts and should prove of great assistance in roughing out a design the methods presented for determining stability have been selected with reference to their applicability to small work and are not ordinarily to be found in works on naval architecture the various operations involved in designing a sailing yacht are illustrated in the text by work on the thirty foot water line sloop whose plans are given on plates i ii iii and iv this is intended to be a conventional rather than an ideal design and was chosen on account of its suitability for purposes of illustration the complete data on this design is given in the appendix the author is indebted to prof c h peabody of the massachusetts institute of technology for criticism and suggestion about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at forgottenbooks.com this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

focusing on innovation these proceedings present recent advances in the field of mechanical design in china and offer researchers scholars and scientists an international platform to present their research findings and exchange their ideas in the context of the made in china 2025 development strategy one central aspect of the icmd2017 was innovative design pushes made in china 2025 the book highlights research hotspots in mechanical design such as design methodology green design robotics and mechanics and reliability design while also combining industrial design and mechanical design

for new boating enthusiasts even if they ve been at it awhile there are scores of burning questions if one boat has a round bottom and another s is veed what difference does it make in the way they perform what are the advantages of a cutter rig over a sloop why does one sailor swear by a full keel while others won t have anything but a fin keel why does one powerboat have more flare in its topsides than another and what is flare why do some hull shapes look right how big an engine and propeller will it take to move that powerboat what elements make a boat safe or comfortable understanding boat design has been the place to look for quick uncomplicated answers since 1971 founder of the yacht design institute a highly respected designer for more than 30 years and a

frequent contributor to sail cruising world and other magazines ted brewer has again revised his classic primer this new volume has been greatly expanded and contains information on many aspects of design that were not even thought of twenty years ago understanding boat design has eased tens of thousands of readers into the complex world of small craft design it is the ideal introduction for backyard boatbuilders students of boat design or someone looking to buy a first boat this tight little book should be required reading soundings a natural for those embarking on a first purchase or the amateur builder sailing one of the cleanest and clearest expositions on the elements of yacht design ever published by a naval architect who knows what he is talking about woodenboat

this set of two volumes comprises the collection of the papers presented at the 5th international conference on maritime technology and engineering martech 2020 that was held in lisbon portugal from 16 to 19 november 2020 the conference has evolved from the series of biennial national conferences in portugal which have become an international event and which reflect the internationalization of the maritime sector and its activities martech 2020 is the fifth of this new series of biennial conferences the set comprises 180 contributions that were reviewed by an international scientific committee volume 1 is dedicated to maritime transportation ports and maritime traffic as well as maritime safety and reliability it further comprises sections dedicated to ship design cruise ship design and to the structural aspects of ship design such as ultimate strength and composites subsea structures as pipelines and to ship building and ship repair

every day we interact with thousands of consumer products we not only expect them to perform their functions safely reliably and efficiently but also to do it so seamlessly that we don't even think about it however with the many factors involved in consumer product design from the application of human factors and ergonomics principles to reducing risks of malfunction and the total life cycle cost well the process just seems to get more complex edited by well known and well respected experts the two volumes of handbook of human factors and ergonomics in consumer product design simplify this process the second volume human factors and ergonomics in consumer product design uses and applications discusses challenges and opportunities in the design for product safety and focuses on the critical aspects of human centered design for usability the book contains 14 carefully selected case studies that demonstrate application of a variety of innovative approaches that incorporate human factor and ergonomics hfe principles standards and best practices of user centered design cognitive psychology participatory macro ergonomics and mathematical modeling these case studies also identify many unique aspects of new product development projects which have adopted a user centered design paradigm as a way to attend to user requirements the case studies illustrate how incorporating hfe principles and knowledge in the design of consumer products can improve levels of user satisfaction efficiency of use increase comfort and assure safety under normal use as well as foreseeable misuse of the product the book provides a comprehensive source of information regarding new methods techniques and software applications for consumer product design

a great book on yacht design for novice designers who want to use pencil and paper or cad boat owners who wish to modify their hull rig deck layout or accommodation and those looking to buy

this work is significant it is the first to include a method of assessing structural strength in the context of the modern marine environment commander m c cruder u s coast guard acclaimed author and naval architect dave gerr created this unique system of easy to use scantling rules and rules of thumb for calculating the necessary dimensions or scantlings of hulls decks and other boat parts whether built of fiberglass wood wood epoxy composite steel or aluminum in addition to the rules themselves the elements of boat strength offers their context an in depth plain english discussion of boatbuilding

materials methods and practices that will guide you through all aspects of boat construction now you can avoid wading through dense technical engineering manuals or tackling advanced mathematics the elements of boat strength has all the formulas tables illustrations and charts you need to judge how heavy each piece of your boat should be in order to last and be safe with this book an inexpensive scientific calculator and a pad of paper you ll be able to design and specify all the components necessary to build a sound long lasting rugged vessel what reviewers have said about dave gerr s books propeller handbook by far the best book available on the subject sailing the best layman s guide we ve ever read practical sailor dave gerr and international marine made a complicated topic understandable and put it into a handbook that is easy to use woodenboat without doubt the definitive reference for selecting installing and understanding boat propellers royal navy sailing association journal the nature of boats if you are not nautically obsessed before reading this book you will most certainly be afterward sailing fascinating potpourri of information about today s boats modern and traditional woodenboat

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