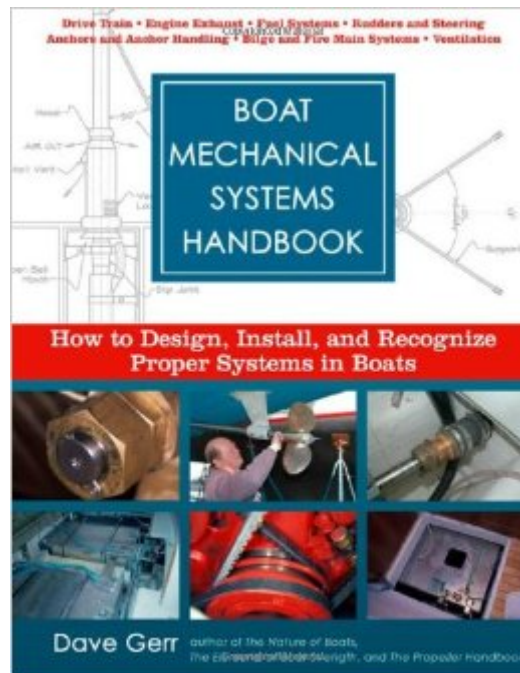


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# Boat Mechanical Systems Handbook: How To Design, Install, And Recognize Proper Systems In Boats



## Synopsis

The First Ever Guide for Optimizing Boat Systems This guide is invaluable for anyone designing or installing mechanical systems on a new boat, retrofitting an existing boat, or evaluating a boat's operating condition. Writing for designers, builders, owners, buyers, mechanics, surveyors, and insurers of sailboats, powerboats, and commercial vessels, Dave Gerr provides design and installation guidance for each major mechanical system plus pragmatic guidelines and real-world interpretations of American Boat & Yacht Council (ABYC) and European standards. No marine professional or serious boater should be without Boat Mechanical Systems Handbook. "Dave Gerr has a knack for breaking down the more esoteric concepts of naval architecture into language that's easily understood by the layman, which is one of the reasons why his writing often appears in the pages of SAIL. Another reason is his deep practical knowledge of the intricacies and subtleties of boat construction and systems, and the way they relate to each other. The subhead of Boat Mechanical Systems Handbook says it all--'how to design, install and recognize proper systems in boats.' Light reading this isn't, but if you're about to refit your boat or upgrade outdated systems, perhaps with some serious voyaging in mind, this book is a worthwhile investment. This is a unisex book, for both powerboaters and sailors; there's no mention of sailing rigs, but every other conceivable system is covered more or less exhaustively."--PETER NIELSEN, SAIL, November 2009 Praise for Dave Gerr's previous books: The Elements of Boat Strength: "Certain books, because of their thoroughness, tend to become industry standards; such is the case with The Elements of Boat Strength."--Ocean Navigator Propeller Handbook: "The best layman's guide we've ever read."--Practical Sailor "Gerr made a complicated topic understandable and put it into a handbook that is easy to use."--WoodenBoat The Nature of Boats: "Offers, in a disarmingly charming fashion, a look at all aspects of what makes a boat work. If you are not nautically obsessed prior to reading this book, you most certainly will be afterward."--Sailing

## Book Information

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## Customer Reviews

Absolutely amazing handbook. I think Dave Gerr can read in my mind and write directly about 99% of my designing troubles, problems and give me recipes. Very clear written, 110% useful. I live not in USA, not in England or other country with English language. For me very important is easy language. This book has easy for foreigners language and very good illustration. This is my third book of Dave Gerr. Once again the best choice I can, I give six stars for this book

If you are doing a new buildout, restoration or planning to do either this book MUST join those by Nigel Calder (Boatowner's Mechanical and Electrical Manual: How to Maintain, Repair, and Improve Your Boat's Essential Systems) and other great authors, on your reference shelf. The details provided for various systems include historical examples, numerous sketches, photos and engineering formulas and careful attention to international standards and measurements. The boating world is a better place because of this book. I have a nautical library with over 700 volumes and this book will go immediately to "most treasured" status!

Like Dave Gerr's other books, which I have and like, this one is fairly comprehensive but only in the area covered. The problem with it is that it is limited to large powerboats and if your interest is in smaller or trailer sized powerboats, there is not enough meat here to warrant buying it. Much of the information that is suitable for smaller boats is also in his or other books.

Another bible for home boat builders and designers. This and Gerr's propeller handbook are must-haves. Why? Covers a wide range of key boat systems (steering, exhaust, tanks, etc) to a level just not found anywhere else. Drawings, pictures, and well-written experiences - interesting reading as well as a solid reference book.

I admit I am a Dave Gerr fan. I also own his other books (The Propeller Handbook, The Nature of

Boats, and the Elements of Boat Strength). I find his work to be very comprehensive and very accessible. I am relatively new to working in marine design and have picked up Dave's books to fill in some of the gaps in my knowledge. I have not been disappointed. This book would also be a good resource for boat owners and boat builders. I haven't poured over all the chapters, but my first impression is that The Boat Mechanical Systems Handbook does an excellent job of covering all the typical mechanical systems you'd find on a boat, including detailed drawings and rules/calculations for sizing boat parts. As the book covers boats, you won't find many details that are also applicable to larger commercial vessels (ships) but the principles are often the same anyways. A great value.

Dave's books are always down to earth and practical, and this is the best of all his books. Most boat design books give lofty and impractical theories whereas Dave has drill down to tried and true solutions. Better still he explains why we need to follow the principles and every now and then gives a back story that illuminates the topic even more. As an amateur boat builder this book is dog eared through use. It is beside me in the studio and then used as a practical check in the workshop. I buy all of Dave's books but this is the standout. Well Done.

Review each system on a boat, the alternatives and problems. Also addresses cost factors of equal systems. If you are building a boat it will get your knowledge rapidly built to allow you to make choices.

From it's pages I've gleaned very useful information about the mechanics of most boats. The boats described seem to be much larger than the average boat owner's vessels but the information is still applicable. It also provided me with knowledge of things I was unaware of, that will be very usable as I remodel my old boat. Bring it up to date with mechanics and utilities. Thanks Maxey

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