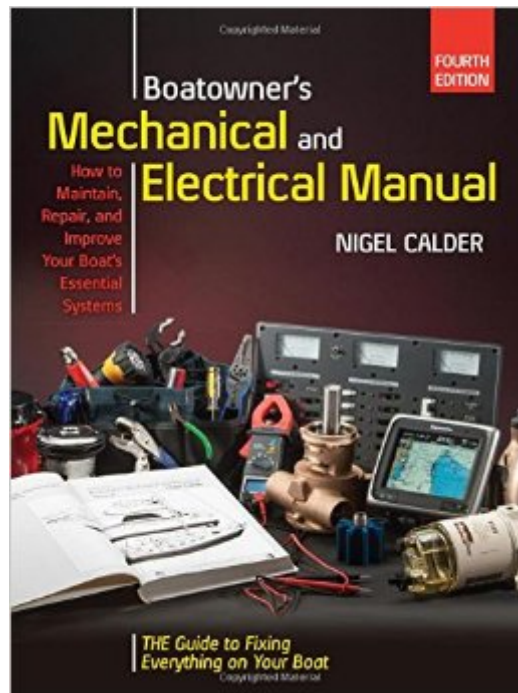




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# Boatowners Mechanical And Electrical Manual 4/E



## Synopsis

The maintenance bible for boatowners is fully updated and better than ever! If it's on a boat and it has screws, wires, or moving parts, it's covered in Boatowner's Mechanical and Electrical Manual. When you leave the dock with this indispensable resource aboard, you have at your fingertips the best and most comprehensive advice on:

- Battery technologies, including recent developments in lead-acid and lithium-ion batteries and fuel cells
- 12- and 24-volt DC systems
- Electric and hybrid propulsion
- How to radically improve the energy efficiency of most boats
- Corrosion, bonding, and lightning protection
- Generators, inverters, battery chargers, wind and water generators, and solar power
- Electric motors and electric lights
- Marine electronics, including networking systems, antennas, and RFI
- Diesel engines
- Transmissions, shaft brakes, and propellers
- Refrigeration and air-conditioning
- Tanks, plumbing, and through-hulls
- Pumps and watermakers
- Steering, autopilots, and wind vanes
- Stoves and heaters
- Winches, windlasses, and bow thrusters
- Spars, rigging, and roller reefing

## Book Information

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## Customer Reviews

If you had to choose a single book to help you assess and maintain your boat gear, this would be it.

- Practical Sailor "A major achievement. . . . It would be hard to imagine anything going wrong on a boat that couldn't be figured out with this book."
- Sailing World "A truly remarkable bible. . . . This book is the best of its kind."
- WoodenBoat "The world's best technical reference and troubleshooting book."
- Sailing "Inland and Offshore "This manual will be of lasting interest to anyone who wants to know how their boat works, what has gone

wrong when it doesn't, and how it could be fixed.

- Classic Boat – Without becoming too complex, the book covers almost every imaginable mechanical or electrical matter in the marine environment.
- Work Boat World – Calder lives what he writes, . . . [and] what he offers . . . is practical solutions to problems associated with increasingly complex marine systems. . . . [A] bargain for anyone in the construction and repair side of the boat business.
- Professional Boatbuilder

NIGEL CALDER is widely acknowledged as the world's foremost writer on boat systems maintenance. A diesel mechanic for more than 25 years, he has also been a boatbuilder, cabinetmaker, and machinist. Calder is the author of *How to Read a Nautical Chart*, *Nigel Calder's Cruising Handbook*, *Refrigeration for Pleasureboats*, and *Marine Diesel Engines*. He is a frequent contributor to boating magazines in the United States and Britain.

An updated version of the absolutely BEST boat systems maintenance book, bar none! All sections have been updated, but the electrical portion has been extensively revised. This alone makes the purchase of this new edition worth the cost. There is not another book that comes close to the depth covered in this book. (I have just finished a complete refit of my sailboat and I nearly wore out my copy of the previous version of the book because I referenced it so frequently.) I highly recommend this book for anyone who really wants to understand how to properly design, modify, maintain, or repair the various systems on their boat.

I am an engineer aboard commercial vessels. I've seen lots of training text and reference books. This is, by far, the most comprehensive and easy to read and understand book on boat engineering systems I've ever been exposed to.

An amazing compendium of photos and descriptions of boat mechanical and electrical equipment. Extremely concise, up to date, well-written and easy to understand. This book belongs on each and every boat, at the very least as a reference work.

Excellent update to the previous version. He is the most knowledgeable person I have ever read on fixing my boat. Even though I am not mechanical he gives me enough information that allows me to try to diagnose any problems, but most importantly enables me to see if the mechanics that come out to my boat know what they are talking about.

This book is amazing. You can dig as deep as you need on any given subject. I was a little surprised by the lack of specificity on diesel repair in parts (most people refer to exhaust elbows as consumables; Calder hardly mentions them at all), but the 4 chapters on electrical systems are extremely thorough.

Great reference book with easily understood concepts, explanations and suggestions. I bought one copy for home and another to keep on my boat. Nigel Calder is a prolific writer and an incredible resource.

Classic book. Nice updates from last edition make this one worth buying. Nigel has adopted new recommendations based on recent information...i.e. he doesn't hesitate to correct himself. This is a very good sign. Unfortunately if one were to do all the maintenance he describes, there would be no time and no money to go sailing.

This is a must have reference for your boat's library if you plan to cruise or own any boat, period. I purchased this book to replace/enhance the 3rd ed. that I own since it has loads of updated information, especially electrical and electronics

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