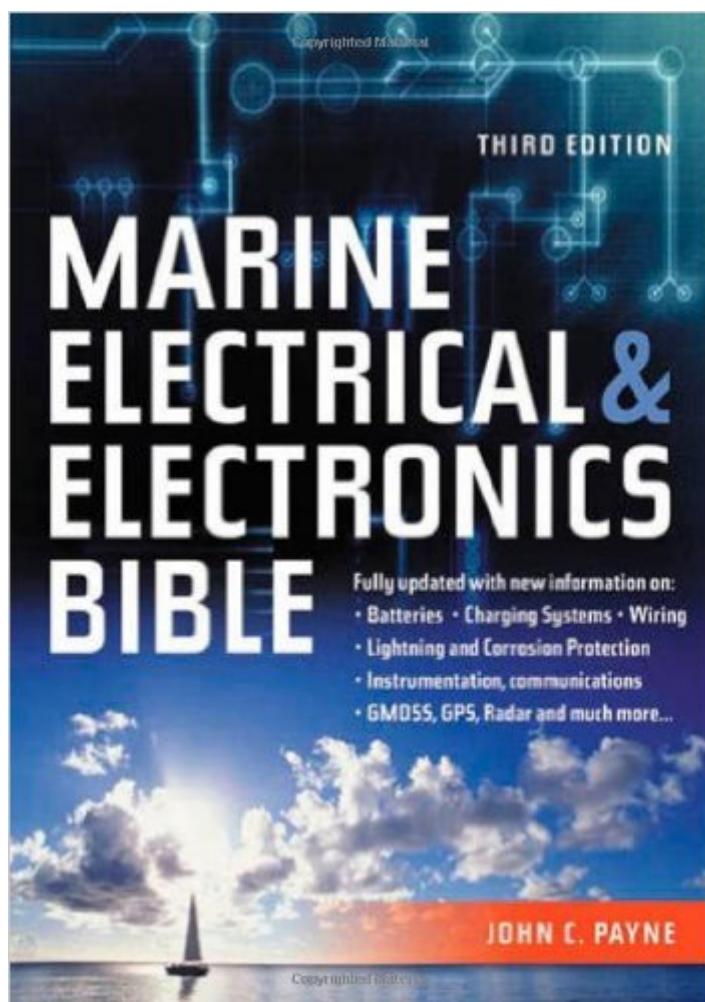


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# Marine Electrical And Electronics Bible: Fully Updated, With New Information On Batteries, Charging Systems, Wiring, Lightning And Corrosion ... GMDSS, GSP, Rada And Much More...





## Synopsis

Here at last is the long awaited third edition of the world's most comprehensive electrical and electronics handbook for sailors. More and more boaters are buying and relying on electronic and electrical devices aboard their boats, but few are aware of proper installation procedures or how to safely troubleshoot these devices if they go on the blink. Now you can find all the information you need in this one complete handbook. The author has put together a concise, useful and thoroughly practical guide explaining in detail how to select, install, maintain, and troubleshoot all the electrical and electronic systems on a boat. This new edition is fully updated and contains information on battery capacity, charging systems, wiring, lightning and corrosion protection, radar autopilots, VHF and SSB radios, short-wave communications, GMDSS, GPS, EPIRBs and much more. The book is illustrated with hundreds of informative charts, wiring diagrams and graphs.

## Book Information

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## Customer Reviews

I'm an Electrical Engineer and FCC licensed for radio and radar operation and repair. I read the book expecting to be disappointed--I now use it as my main reference. The subject is complicated, but Payne keeps things simple, clear and concise--well suited for the layman and the expert. The appropriate references--everything you need is included in the book. If you plan to maintain, or upgrade your yacht's electrical system yourself, in whole or in part, this is the book you want. Read it once a year because you will not be able to digest and retain it all in one reading.

It was very hard to tell from the description or the reviews that the book is almost exclusively designed for the wind-borne sailor. For example there is very little on multiple alternator charging systems and all pictures of boats are of sailboats. As a result I have a brand new copy for sale.

"The Marine Electrical and Electronics Bible" is an immensely-practical and easy-to-follow reference for sailors and powerboaters. John C. Payne's 1998 edition has been expanded to cover email services and system components; Web addresses for nautical books, magazines, software, and charts; new training and simulator software written for laptops; GMDSS Distress Call (Alert) Sequence; and current radio frequencies. In the Foreword, Payne writes: "If you wish to keep your boat healthy and safe you must have an electrical system based on sound principles." He goes on to give the essentials of those systems--everything from Batteries and DC Electrical Equipment to Radar and Entertainment Systems. Each chapter has concise instructions, simple illustrations, and easy-to-read printing. And the occasional set of equations is presented with plenty of white space. In the back of the book, there is not only a fine index, but a list of addresses of marine electrical suppliers in the U.S., United Kingdom, and Australia. Kudos to Payne and Sheridan House for publishing a new edition of this classic reference.

I really enjoy reading this book as it is just what is required when speccing out a boat. In particular the focus on keeping things as simple as possible is helpful as well as giving one the names of suppliers and products that really reflect best practice. Every yachttowner with a technical interest should have it. If only more builders had read it as well!

I was really unhappy with this purchase. It includes some valuable information relating to general electrical systems. But, everything else is horribly outdate. The book talks about cassette tape music systems for God's sake. The discussion of GPS, radar, sonar, personal computers and instrumentation networking is just worthless due to age. I am sure it was a great book in its time but Reagan was president.

It took me a bit to get used to the format of the book, its all outline style, point 1, 1a 1b etc. I did catch some mistakes in some tables... it seemed that wiring sizes in one table were different than another table. I wish some areas had more detailed infomration. But there is a LOT of information here, and he covers every category I can think of. I am currently in the process of rewiring my DC and it is very helpful. I use it in conjunction with Nigel Calder's book, and each has good info. Over

all I prefer Calder, but like having both.

10 years ago I used this book to engineer and install the electrical system on an old 60's vintage sailboat. Since then, the boat has been sailed extensively and the system has performed flawlessly. The information on batteries, energy management, and charging is invaluable. I work in a boatyard, and can honestly say that because of this book there are not many boats that are wired as well as mine.

After just a few moments of reviewing the book it becomes clear that the author has elected to present the "theory" of marine electrical and electronics systems without much information on practical applications of this information. Although this book would make good course material for anyone studying the subject, the term "bible" implies practical information and guidance which is NOT provided in this book. If you are interested in understanding the theory behind the subject, the book could be helpful, if you need practical information on how to diagnose and solve real problems encountered with existing marine electrical and electronic systems, making new installations, or avoiding electrical problems, you'll probably want to look elsewhere.

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