

Celestial Navigation: A Complete Home Study Course, Second Edition

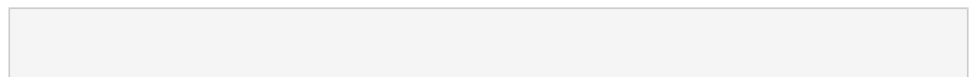
By David Burch

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Celestial Navigation: A Complete Home Study Course, Second Edition By David Burch

This book has been used for 30 years, updated periodically as needed. More than 20,000 students have successfully learned ocean navigation from these materials and gone on to cross oceans or circumnavigate the globe. This book covers how to find position at sea from timed sextant sights of the sun, moon, stars, and planets plus other routine and special procedures of safe, efficient offshore navigation. No previous navigation experience is required. The only math involved is arithmetic (adding and subtracting angles and times). This is a practical, how-to-do-it book, which also includes clear explanations of how it works and how to do it well. Plus this book includes other crucial factors of ocean navigation besides just finding out where you are from the stars, such as logbook procedures, dead reckoning, error analysis, route planning, and more. At the end of this book, you will be ready for ocean navigation. The book includes: text, practice problems, tables selections, detailed glossary, and full solutions. Printable work forms, plotting sheets, and other resources are available at no charge from www.starpath.com/celnavbook. Preface to the Second Edition: We are pleased to say that after ten more years of using this text we do not find reason to change the basic approach and methods of the teaching. We still use most of the same examples, which are now quite old, but that is the beauty of celestial navigation. It has not changed, so we do not benefit in any way from making all new examples, which would bring with them more chance of error in a book of many numbers. We have, however, notably improved and expanded the book. Each section has been updated and reformatted for a clearer presentation, often in response to student questions over the years. New graphics have been added and older ones all updated. There is much new content in the text, especially in the In-Depth chapter, including more detailed discussion of the sailings and more background on the principles. New sections were added on general ocean navigation and optimizing the fixes. We have also updated the electronic navigation section, as most ocean navigators will also be using other tools besides celestial.



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Editorial Review

Review

"Among all the books in print on modern celestial navigation, including mine, this one is far and away the most comprehensive, more so than even the classic tomes-Bowditch's *American Practical Navigator* and Dutton's *Navigation & Piloting*. It is rich in graphics, detailed in explanation, extensive in examples. At logical points, there are quizzes to let you track your progress."

--Hewitt Schlereth, Author of *Celestial Navigation in a Nutshell*, teaches celestial navigation at the Maritime Institute in San Diego, CA.

From the Back Cover

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and

The Star Finder Book -- A guide to the many uses of the 2102-D Star Finder

About the Author

David Burch, PhD, FRIN, is the Director of Starpath School of Navigation, which after 26,000 classroom students since 1979 switched to all online training in 2008. He is the author of 13 books and hundreds of magazine articles. He received the Institute of Navigation's Superior Achievement Award for outstanding performance as a practicing navigator. He is Fellow of the US Institute of Navigation as well as a Fellow of the Royal Institute of Navigation in London. He has extensive ocean sailing experience covering much of the globe, and once held an elapsed time record for the Victoria to Maui Yacht Race that lasted for 16 years. On the academic side, he is a past Fulbright Scholar with a PHD in physics.

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Karen Lawless:

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