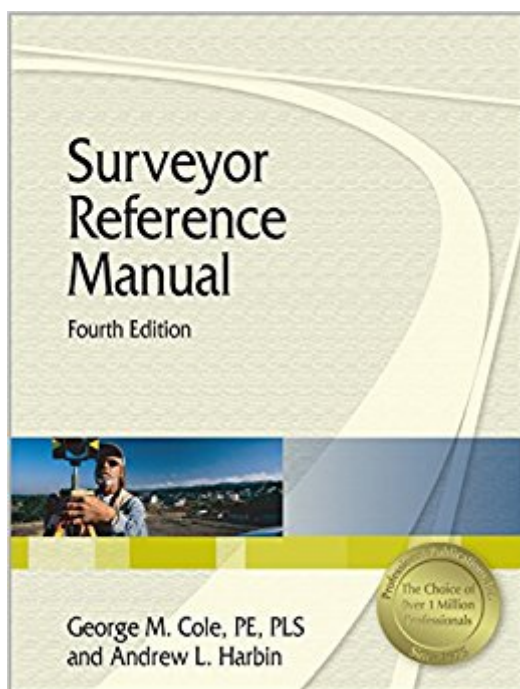


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# Surveyor Reference Manual, Fourth Edition



## Synopsis

The Surveyor Reference Manual is the most comprehensive reference and study guide available for surveyors preparing for the Fundamentals of Surveying (FS) exam. New chapters on GPS, electronic distance measurement, geographic information systems, economics, job costing, and ethics have been added to this edition to meet the current NCEES survey exam specifications. The most trusted reference for the FS exam A complete introduction to the exam, including the format and content A comprehensive review of the math needed to perform surveying functions More than 240 solved example problems and 385 solved practice problems A full glossary of terms An easy-to-use table of sine, cosine, and tangent values "The Land Surveyor Reference Manual successfully prepared me for the exam and is now the backbone of my reference collection." -J. Forest McKenzie II, E.I.T., L.S.I.T. Civil Designer ADC Engineering, Inc.

## Book Information

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## Customer Reviews

This book is written primarily for land surveyors taking the Fundamentals of Land Surveying (FLS, formerly Land Surveyor-In-Training, or LSIT) exam. --This text refers to an out of print or unavailable edition of this title.

From The Introduction "How to Use This Book" This book is intended to serve a dual purpose. First, as the title suggests, it is intended to serve as a comprehensive manual for practicing land surveyors. If you are a practicing surveyor, you will find it to be an invaluable and frequently used

addition to your library. I keep one copy on the bookshelf next to my desk in my office and another copy in my home library. That way, it is always available for easy reference. Second, because of its comprehensive coverage, it is an ideal resource for people preparing for the Fundamentals of Land Surveying (FLS) examination. (It is also an ideal textbook for instructors teaching review courses for the FLS.) This book may also be used as a study aid for the Principles and Practice of Land Surveying (PLS) exam, but it should be recognized that since it is intended as a comprehensive manual of fundamental principles rather than an in-depth analysis of any particular area of surveying, it may not be suitable as a stand-alone study guide for all portions of the PLS. --This text refers to an out of print or unavailable edition of this title.

I am married to a licensed land surveyor, and have been in surveying for five years. I purchased this book to prepare to take the LSIT exam. It is a useful review of the pertinent math and does touch on a pretty comprehensive scope of topics, but still leaves a lot to be desired. This is a new edition and is FRAUGHT with errata. I have to update from their errata website frequently. It would be bad enough if I was familiar with the concepts in the book, but as I am trying to learn new concepts for the exam it is very demoralizing to be working through a problem which has errors in it and I can't figure out why I can't make my answer match what they have. I've done the problem correctly, but they've got a bogus solution and without a solid understanding of the concept at hand, there's no way for me to know who's right and if I've got the concept or not. Also bear in mind this is a textbook. And trying to learn from a textbook is virtually impossible without a teacher. My husband is my tutor and I am learning using this book and his knowledge together--you are not going to learn surveying concepts out of this book by yourself...it's just too superficial. They breeze through a concept, give an example and move on...there's no explanation or in-depth analysis of what you've just touched on. It is a fine tool for exam prep, but you better already know the concepts, or have a tutor available. The biggest disappointment is all the errata. If they had done a better job of editing before it went to press it would be a far better and more useful book....unfortunately there aren't many to choose from, so you're kind of stuck with it for LSIT prep work.

One of the better manuals for learning surveying mathematics. Highly recommend the Solutions Manual companion to help work out some of the more complex math problems as sometimes the explanations are a bit vague in how they arrived at the solution.

Much of the information contained in the text has been updated with computers and digital

technology. It's not a "bad" text but I would not knowingly purchase it again.

thanks

I bought this book to use as a reference for the surveying portion of the civil PE exam that California requires. I thought it was very well organized and contained all the information that I needed for our test. I also used some of the practice problems in the back of each chapter to help refresh my memory and prepare for the exam. I know that it is not comprehensive for people taking the LS or LSIT, but it is better than the surveying textbook I was required to purchase when I was in college.

This book is reasonably well written and is aligned with the NCEES models for Fundamentals of Surveying (FS) and Principles of Surveying (PS) exams. About 60% of book is math related starting with fractional multiplication and proceeding through state plane to Lat/Lon conversions. Other areas include limited introductions to Boundary Law and Business Practices. Outside of the math, I would not depend too heavily on this book for answers.

This book was actually better and more informative than I had anticipated. Full of calculation examples and also has a property law section.

This book is written for people who didn't pay attention in high school math. The section on boundary surveying is too limited. It reads like a short course manual written by someone lacking a university-level educators background. The "Surveying Handbook" by Brinker and Minnick is much more technical. I also recommend "Surveying - Theory and Practice" by Anderson and Mikhail which has the technical detail that should be known by a capable land surveyor. If you want a basic book on surveying, mainly related to field technique and construction staking, then get "Surveying with Construction Applications" by Kavanagh. It gives a general overview and I liked the earlier edition I used in college. My qualifications for writing this review is that I am a civil PE and a PLS with university coursework completed in both professions. I hate wasting time and money on a poor text. I also like the old surveying books from the 1930's for the basics of math, including spherical trigonometry, error analysis, and traditional surveying practice that still has use in modern times. It is nice to know where we came from and how things work, then use computers and field data collectors. To many instrument operators nowadays are only button pushers and don't have the technical background in basic trigonometry. Try "Surveying Vol I and II" by Breed and Hosmer and

"Route Surveying" by Pickels and Wiley from a used book store.

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