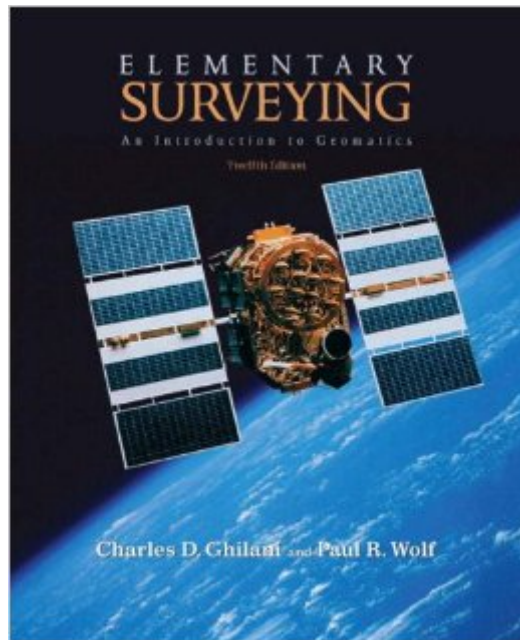


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# Elementary Surveying: An Introduction To Geomatics (12th Edition)



## Synopsis

Updated throughout, this highly readable best-seller presents basic concepts and practical material in each of the areas fundamental to modern surveying (geomatics) practice. Its depth and breadth are ideal for self-study. Includes a new Chapter 16 on Kinematic GPS. Features several new sections on machine control, localization of GPS surveys, and construction staking using GPS added to Chapters 16, 19, and 23. Moves Astronomical observations chapter to Appendix C to reflect that in recent years, kinematic GPS has replaced astronomical observations for position and azimuth. Emphasizes total stations as the instruments for making angle and distance observations. A useful reference for civil engineers.

## Book Information

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## Customer Reviews

As an educator of over 20 years, I have used many elementary texts on surveying. This is by far the most comprehensive and easy to understand book for the student wishing to learn from the basics to advanced surveying topics. One of the things that I like about this book is that I have found it is applicable to both the on campus courses at the University of Wyoming as well as the off campus courses that we offer to experienced, practicing surveyors around the country. The topics are just as suited for my students in Florida as they are in New York, California, Mississippi or Hawaii, and that's saying a lot since the laws are different in all regions of the country. I have found that using this book has been very easy to present material useful to students taking the classes in any state while preparing for the FLS or LS exam, because it covers the topics to about the right amount of depth as the exam expects the examinee to comprehend. The only downfall of the book as I see it

is that there are numerous wrong answers (in the back of the book) to the selected homework problems that answers are provided for. This can be frustrating at times as you can imagine. If you can find me, I'd be happy to forward a list of these erroneous answers, and the correct answers. This might be very useful for other educators. As per the rules of posting reviews, I can't put my email address on here. Bummer.

Surveying is the foundation of all of civilisations. The world would not be the same without the methods of surveying used by professionals. This book was an essential reference during my study at university and is still used in my professional career. From the first page you will be learning various elements of surveying. The explanation of fundamental elements of surveying methods and the changes to surveying caused by technology are explained at the start to give a foundation from which to work from. The different types of surveying is explained in good detail covering the concepts of bearings, angle measurement and lots of others. The covering of work related areas and problems are discussed and covered. This includes curves and roads, mapping and photogrammetry along with sections relating to area and volume determination. There are numerous pictures, illustrations and diagrams used to show the equipment and show the concepts covered. If I was starting my education in surveying or wishing to have a good reference then this should be recommended as a text worth holding in your library.

I have been using this book for six months in two different courses, and have nearly completed it. While the content is fine, the number of errata in this book should not be tolerated. On the book's web page, numerous errata are listed, but there are many more that have not been reported or compiled. While trying to study this book, the errata keep getting in the way of understanding the material, as there are wrong equations, bad tables, etc. This book is in its tenth printing, and it is simply inexcusable that this many errata are allowed to remain in the book after so many printings. Another reviewer (an educator who has the edition with answers in the back) mentioned the number of incorrect answers in the educators edition as well. So, if you have a choice, look elsewhere for an elementary surveying text. The authors and/or publishers of this one obviously do not care enough to correct the numerous errors which confuse the student.

I am shocked that there are ANY positive reviews, and am highly suspect of the five star ones. This book needs massive amounts of editing. There are few examples of equations and concepts; of the few that are, about a third of them are incorrect in one form or another (either they refer back to the

wrong data, they skip steps, simply get the math wrong...). This is infuriating. I would like to see many more logically worked out examples, if they can manage to get it straight themselves before printing. On chapter review questions, only a very few have answers in the appendix; these are simple answers, not worked out, and not surprisingly, often incorrect. Also, this book seems to go out of its way to explain concepts in the most complex manner possible. If it could choose between a ten word sentence an entry level engineering student or even layman could understand, or two paragraphs of engineering-ese, it'll choose the latter. This book has potential to be very good, with development and editing. Just amazing that it's in its eleventh printing, reads like a disassembled beta copy. AWFUL.

This book is sorely lacking at two levels: 1) There are too many errors 2) many concepts are not clearly explained. I have two degrees in electrical engineering and decided to go back and get my Masters in Civil Engineering. The graduate coordinator required me to take the elementary surveying course and this was the required book. I got an A in the course, but please believe me it wasn't a result of this 11th edition. It is both inexcusable and shocking that there are so many errors within the book. You would think that by the 11th edition they would have corrected the many errors. Someone needs to sit down with the editor and have a long talk. One thing I've noticed by looking at my father's engineering books of the 40's, my EE books of the early 80s and the new books this era, overall the books have vastly improved in the ability to explain concepts to the students. This book reminds me of my EE books of the 80s. Normally I would be so gruff and negative, but I was surprised by the amount of good reviews and thought I should put in my \$0.02.

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