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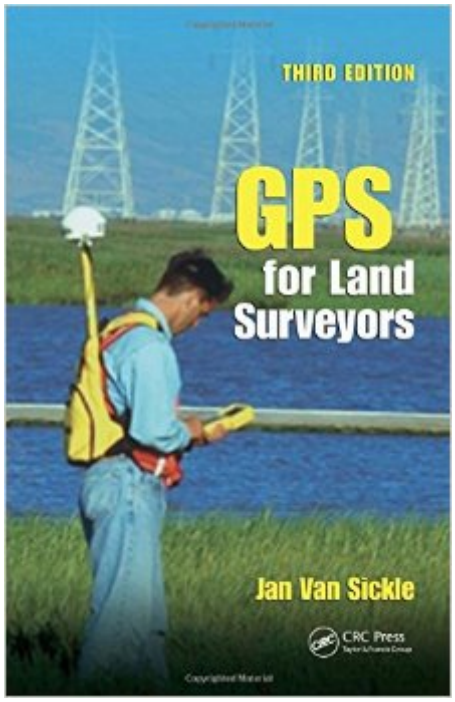
GPS For Land Surveyors, Third Edition



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Synopsis

Since the last edition of this international bestseller, GPS has grown to become part of a larger international context, the Global Navigation Satellite System (GNSS). Both GPS and GNSS technologies are becoming ever more important in the everyday practice of survey and mappers. With GPS for Land Surveyors, Third Edition, a book written by a land surveyor, for land surveyors, you can stay in the know on the latest GPS techniques, technologies, codes, and signals. Whatâ ™s New to the Third Edition? Sections on Real-Time Network Services, Block IIF, and control segment modernization GPS code, such as the M-code, L1C, and L2C An entire chapter dedicated to GNSS Discussion of the Russian GLONASS system, the Chinese Beidou system, and the Japanese QZSS From fundamental theory to practical application and advanced technologies, the book covers GPS without pages of complicated math. It demonstrates the basics of GPS technology, common hardware, surveying methods, survey design, planning, and observation. Additionally, each chapter includes helpful review questions and answers. GPS and GNSS are revolutionizing the practice of surveying and mapping. This user-friendly manual gives you the tools needed to understand and use these important technologies in everyday practice.

Book Information

Hardcover: 360 pages
Publisher: CRC Press; 3 edition (May 5, 2008)
Language: English
ISBN-10: 0849391954
ISBN-13: 978-0849391958
Product Dimensions: 9.1 x 6.4 x 0.7 inches
Shipping Weight: 1.6 pounds (View shipping rates and policies)
Average Customer Review: 4.2 out of 5 starsÂ Â See all reviewsÂ (20 customer reviews)
Best Sellers Rank: #665,889 in Books (See Top 100 in Books) #68 inÂ Books > Engineering & Transportation > Engineering > Civil & Environmental > Surveying & Photogrammetry #155 inÂ Books > Computers & Technology > Graphics & Design > Computer Modelling > Remote Sensing & GIS #155 inÂ Books > Science & Math > Earth Sciences > Geography > Information Systems

Customer Reviews

I found Mr. Van Sickle’s book to be very concisely written yet full of practical "how tos". The flow from concept to concept is well though out. He shows his vast experience and knowledge of the

subject on nearly every page. There are however, some large scriveners errors which are too large to be considered typographical errors (sometimes a whole sentence or paragraph is unrecognizable). In some cases these errors detract greatly from the content since it hard to know what he is saying. One aspect of Mr. Van Sickle's style is his ability to explain a concept, albeit difficult for most to understand, using common words and phrases. Generally, I liked the book and would recommend it as a basic part of your GPS library. One should experience various aspects of a subject from all directions to be able to fully understand anything. I will confess to learning a number of things from Mr. Van Sickle's book mostly due to his easy literary style which I had not previously understood. I have used the book as a textbook for two semesters and will continue to do so. I only hope that there is a new corrected edition available soon.

Jan presents a very concise and complete book on the intricate details involved with all aspects of GPS, from the GPS satellite signal structure itself to the applications of the Land Surveyor in implementing this technology. This book is a great learning tool for Land Surveyors interested in learning more about the who,what,where,and why's on GPS Surveying.

I found Mr. Van Sickle's 2nd edition book to be an expansion, correction and update of the 1st edition (previously reviewed). The book now has nine chapters and includes a new one on "real-time". Various corrections and updates have been placed into print which were greatly needed. The book "boils down" GPS into its basic components and explains difficult aspects in a more understandable fashion. The new, larger illustrations are generally more easier to see and of a better quality than before. Mr. Van Sickle has added questions and answers at the end of each chapter making the book more useful in the classroom. Generally, I liked the new book and would recommend it as a basic part of your GPS/Surveying library. I intend to use the book as a textbook for my upcoming semester and I know that the students will like it as much as I have, especially with the new self-checking questions and answers at the end of each chapter.

As the owner of Flatirons Surveying and Engineering, based in Boulder, Colorado, this is required reading for my 54 employees. I firmly believe that anyone entering the profession of surveying must read this book. I have known Jan Van Sickle since the mid-1970's, and his knowledge of GPS and his approach to teaching it is unmatched. It presents facts that cannot be learned from being an apprentice or merely working in this industry. It is logical, coherent, very readable, and actually fun to read. I always keep several spare copies on hand to share. I am also the Editor of the Colorado

magazine for professional land surveyors, Side Shots, to which Jan has contributed many articles over the years, all to good reviews. I would highly recommend this book for surveyors looking for a solid introduction to the principles of GPS.

This text is chock full of all kinds of in depth knowledge concerning GPS. Van Sickle has several decades of experience, and draws from that experience throughout the documentation.However, he will frequently jump to extremely in depth and specific information before covering the broad topics. This can make the book difficult for beginners to follow. Thus the reduction of one star, since the book is typically used as an introductory material.Professionals in the industry will likely find this text a great resource.Purchase the 4th edition, out now.

I have just completed reading the 3rd edition of this book.On the plus side, it offers a good introduction to the topic of GPS for land surveyors, and I believe this was the author’s intent. Many of the diagrams are good and help to illustrate the concepts well.On the down side, there are several typos, and some editing in this respect would be an improvement. I noticed this especially with respect to the multiple choice questions at the end of each chapter. Answers are given with written explanation, however several of the answers do not match the explanation.Also, as a land surveyor, having no working experience with GPS equipment (other than handheld consumer grade units) I was hoping that this book might have offered a little more of a "hands on" or "how to" characteristic, with practical examples. However, I found it to be more on the broad theoretical side, and even lacking the intricate details of the theory - in short an introduction.The subject matter is broad and the technology rapidly changing. The author does a good job introducing the subject, and I’d recommend it as a first step in a surveyors education about GPS.

The book is excellent. It could be very helpful for people involved in environmental and engineering issues and has to solve or deal with problems in which GPS equipment can make things easier. The chapter about Coordinates is dealt in a clear way and can be understood by anyone with basic knowledge on earth sciences.

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