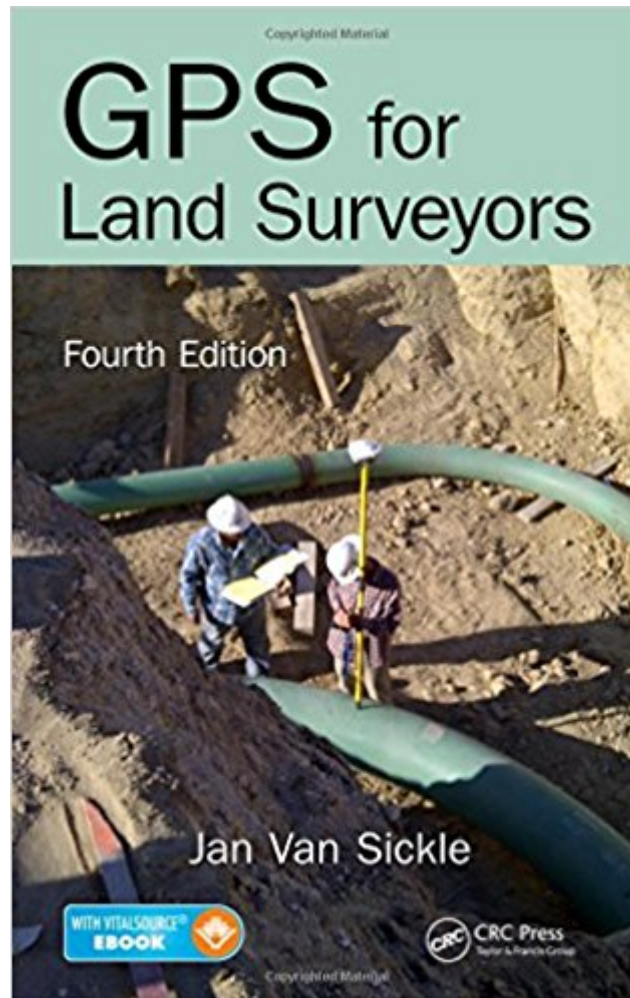




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# GPS For Land Surveyors, Fourth Edition



## Synopsis

For more than a decade, GPS for Land Surveyors has been unique among other books on this topic due to its clear, straightforward treatment of the subject matter. Completely revised and updated, this fourth edition of a perennial bestseller maintains the user-friendly format that made previous editions so popular while addressing changes in hardware, software, and procedures. Neither simplistic nor overly technical, this book introduces the concepts needed to understand and use GPS and Global Navigation Satellite Systems (GNSS). See What's New in the Fourth Edition: Up-to-date information on GNSS and GPS modernization Changes in hardware, software, and procedures Comprehensive treatment of novel signals on new blocks of satellites (L5 and L2C) The book minimizes your reliance on mathematical explanations and maximizes use of illustrations and examples that allow you to visualize and grasp key concepts. The author explains the progression of ideas at the foundation of satellite positioning and delves into some of the particulars. He keeps presentation practical, providing a guide to techniques used in GPS, from their design through observation, processings, real-time kinematic (RTK), and real-time networks. These features and more make it easier for you to meet the challenge of keeping up in this field.

## Book Information

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## Customer Reviews

"This book covers a full range of science and techniques used in the rapidly developing world of satellite positioning. The author has written eight chapters with accuracy, brevity, and clarity to ensure that the reader gains a comprehensive understanding of each topic. Many new learnings are

included as well as a useful set of self-assessment exercises and explanations. For land surveyors, this essential reading is valuable as a foundation for the novice, continued professional learning for the experienced practitioner, and aide memoire for the expert. I recommend this book to my fellow surveyors, near and far."

— Michael Barnes, Past Chair, Association of Petroleum Surveying & Geomatics ([www.apsg.info](http://www.apsg.info)), Chair 2010-2020, APSG Education Foundation

— Dr. Van Sickle offers a rare combination of an advanced education along with practical experience in the field as a professional land surveyor. As GPS and other satellite positioning systems continue to evolve, I am happy to see Dr. Van Sickle release the Fourth edition of GPS for Land Surveyors. As GNSS technology continues to move towards wider market adoption of real-time, high-accuracy positioning techniques such as WADGPS, RTK, real-time PPP, I'm happy to see Chapter 7 devoted to Real-Time Global Positioning System Surveying."

— Eric Gakstatter, Geospatial Solutions "I have recommended this text to many students, who were able to appreciate the clarity. Welcome then thank the author and the publisher for having proposed this update"

— Gabriele Garnero, Università Politecnica di Torino E-mail "I have never read the forerunners of this book, but this edition pleasantly surprised me. The author is not driven by impressing peers but is resolute in offering knowledge and skills to the reader. Indeed, the book has been written for land surveyors by a land surveyor, who has practiced surveying for over 40 years combined with teaching at universities and institutes of technology. He is determined to lead the reader through the nitty-gritty and pitfalls of GPS. Often he further explains a subject with a follow-up sentence starting "In other words" which is sometimes even repeated twice. Concepts are frequently explained by metaphors, e.g. the working of Kalman filtering is illustrated by comparing it to a car driver who interacts with the speedometer by depressing the accelerator. No formulas needed."

— GIM International, September 2015 "GPS for Land Surveyors, 4th edition, is concisely written and enhanced with updates in modern satellite navigation technologies. Dr. Van Sickle shows his extensive knowledge in satellite navigation and his ability to explain difficult concepts to a broad audience. Diagrams, figures and tables are an appropriate and concise illustration of topics. Targeted audiences should be able to gain thorough understanding of the purposes, background, process and practical aspects of GPS. It is an excellent class text or reference book in one's professional library. It is common to see a book about satellite navigation, but it is rare to see one catering to a specific profession. This book is unique and beneficial to have a copy for anyone pursuing a career in the land surveying and/or geospatial engineering industries."

— Photogrammetric Engineering & Remote Sensing, March 2016

A great primer for a surveyor trying to catch up with the times.

terrific book

Very thorough and easy to understand

Jan Van Sickle's GPS for Land Surveyors book provides an excellent resource for anyone teaching or learning about GPS, surveying, or related geotechnologies. It strikes a good balance between providing enough technical details about such complex topics as multipath errors, how to draw baselines, and how to calibrate a site, but yet the book at the same time is approachable and understandable. Jan provides much insight into biases and error in GPS signals and procedures, and how to manage error. Thorough treatment is given to receivers, methods, coordinate systems, datums, geoids and ellipsoids, real time kinematic GPS, differential GPS, and much more. The color illustrations are very thoughtfully done and enhance understanding. This is the 4th edition of the book, but the new edition is definitely worthwhile - it provides a great amount of additional and updated material, including GNSS initiatives around the world. Each chapter contains a set of quiz questions and answers, which aids the book's utility as an instructional tool in a university setting or for those working through the book independently. It is not a "given" to find someone so knowledgeable about this topic and yet be such a good instructor, but Jan Van Sickle is both, and both of these traits are quite evident in this book.

This book is a great resource for students wanting to become land surveyors and land surveyors that plan to use GNSS receivers in their workplace. I taught a class on GPS Surveying at a technical college using his 3rd edition and plan to use the 4th edition now. Updates to the 4th edition have been added to stay current with changes in technology. I believe the book provides the reader with a comprehensive understanding of the topic. The format of the book is well organized. The illustrations are excellent. I think this book would make an excellent addition to anyone's library for surveying. I strongly recommend this book for all interested in a better understanding of GPS/GNSS technology.

Dr. Van Sickle's 4th edition of the "GPS for Land Surveyors" book is one of the top ten in the market. As usual for Dr. Van Sickle, the book provides a great amount of precious information to the reader as well as insight into the future technology of the GPS/GNSS world. One of the most

amazing things for this books is the language. The GPS/GNSS technology and science is not easy, but it is presented in a way that is easy to understand. The presence of high quality illustrations, mathematical equations, and questions to answer makes this book one of the most valuable GPS/GNSS textbooks for Surveying and GPS/GNSS classes at the universities. Based on my personal experience I would say that this book is equally valuable for laymen, professional land surveyors, and students. A. Panayotov Asst. Research Professor UCD, Denver, CO

This book is a great resource for land surveyors. This 4th edition book has been expanded to keep up with new technology and written for those seeking a fundamental understanding of this topic. It is well organized, contains very nice illustrations, and is not overly simplified, nor too complex in its presentation of complex ideas. I recommend this book for all who want a greater understanding of GPS/GNSS technology.

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