



# GPS Satellite Surveying

By Alfred Leick, Lev Rapoport, Dmitry Tatarnikov



**GPS Satellite Surveying** By Alfred Leick, Lev Rapoport, Dmitry Tatarnikov

## Employ the latest satellite positioning tech with this extensive guide

*GPS Satellite Surveying* is the classic text on the subject, providing the most comprehensive coverage of global navigation satellite systems applications for surveying. Fully updated and expanded to reflect the field's latest developments, this new edition contains new information on GNSS antennas, Precise Point Positioning, Real-time Relative Positioning, Lattice Reduction, and much more. New contributors offer additional insight that greatly expands the book's reach, providing readers with complete, in-depth coverage of geodetic surveying using satellite technologies. The newest, most cutting-edge tools, technologies, and applications are explored in-depth to help readers stay up to date on best practices and preferred methods, giving them the understanding they need to consistently produce more reliable measurement.

Global navigation satellite systems have an array of uses in military, civilian, and commercial applications. In surveying, GNSS receivers are used to position survey markers, buildings, and road construction as accurately as possible with less room for human error. *GPS Satellite Surveying* provides complete guidance toward the practical aspects of the field, helping readers to:

- Get up to speed on the latest GPS/GNSS developments
- Understand how satellite technology is applied to surveying
- Examine in-depth information on adjustments and geodesy
- Learn the fundamentals of positioning, lattice adjustment, antennas, and more

The surveying field has seen quite an evolution of technology in the decade since the last edition's publication. This new edition covers it all, bringing the reader deep inside the latest tools and techniques being used on the job. Surveyors, engineers, geologists, and anyone looking to employ satellite positioning will find *GPS Satellite Surveying* to be of significant assistance.

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### Editorial Review

From the Back Cover

#### THE MOST COMPREHENSIVE, UP-TO-DATE GUIDE ON GPS TECHNOLOGY FOR SURVEYING

Three previous editions have established *GPS Satellite Surveying* as the definitive industry reference. Now fully updated and expanded to reflect the newest developments in the field, this Fourth Edition features cutting-edge information on GNSS antennas, precise point positioning, real-time relative positioning, lattice reduction, and much more. Expert authors examine additional tools and applications, offering complete coverage of geodetic surveying using satellite technologies.

The past decade has seen a major evolution in surveying technology. This comprehensive guide covers best practices and preferred methods, helping you:

- Get fully up to speed on the latest GPS/GNSS developments
- Explore the characteristics of satellite systems
- Understand how satellite technology is used in surveying
- Work with real-time kinematics relative positioning
- Examine in-depth information on adjustments and geodesy
- Learn the fundamentals of positioning, lattice adjustment, antennas, and more

*GPS Satellite Surveying, Fourth Edition*, offers reliable, up-to-date guidance for surveyors, transportation and civil engineers, geologists, geographers, technicians, and students.

About the Author

**ALFRED LEICK, PHD**, has served on the Board of Directors of the American Association of Geodetic Surveying. He currently lectures at Michigan Technological University and is the Editor-in-Chief of scholarly journal *GPS Solutions*.

**LEV RAPOPORT, PHD**, received Russia's highest scientific degree, Doctor of Science, from the Institute of Control Sciences of the Russian Academy of Science, where he is now head of laboratory. He is also a professor at the Moscow Institute of Physics and Technology.

**DMITRY TATARNIKOV, PHD**, received the Doctor of Science degree from Moscow Aviation Institute, where he is currently a professor. He is also the Chief of GNSS Antenna Design and Development for Topcon Technology Center.

### Users Review

From reader reviews:

**John Keys:**

A lot of people always spent their very own free time to vacation or even go to the outside with them friends

and family or their friend. Did you know? Many a lot of people spent that they free time just watching TV, or playing video games all day long. In order to try to find a new activity that is look different you can read a book. It is really fun to suit your needs. If you enjoy the book that you simply read you can spent all day every day to reading a book. The book GPS Satellite Surveying it doesn't matter what good to read. There are a lot of individuals who recommended this book. These people were enjoying reading this book. Should you did not have enough space to deliver this book you can buy the actual e-book. You can m0ore easily to read this book from the smart phone. The price is not too costly but this book possesses high quality.

#### **Ann Strickland:**

GPS Satellite Surveying can be one of your nice books that are good idea. We all recommend that straight away because this book has good vocabulary that will increase your knowledge in words, easy to understand, bit entertaining but nonetheless delivering the information. The author giving his/her effort to set every word into joy arrangement in writing GPS Satellite Surveying but doesn't forget the main point, giving the reader the hottest in addition to based confirm resource info that maybe you can be one of it. This great information can certainly drawn you into completely new stage of crucial thinking.

#### **Heather Bly:**

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#### **Henry Jones:**

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