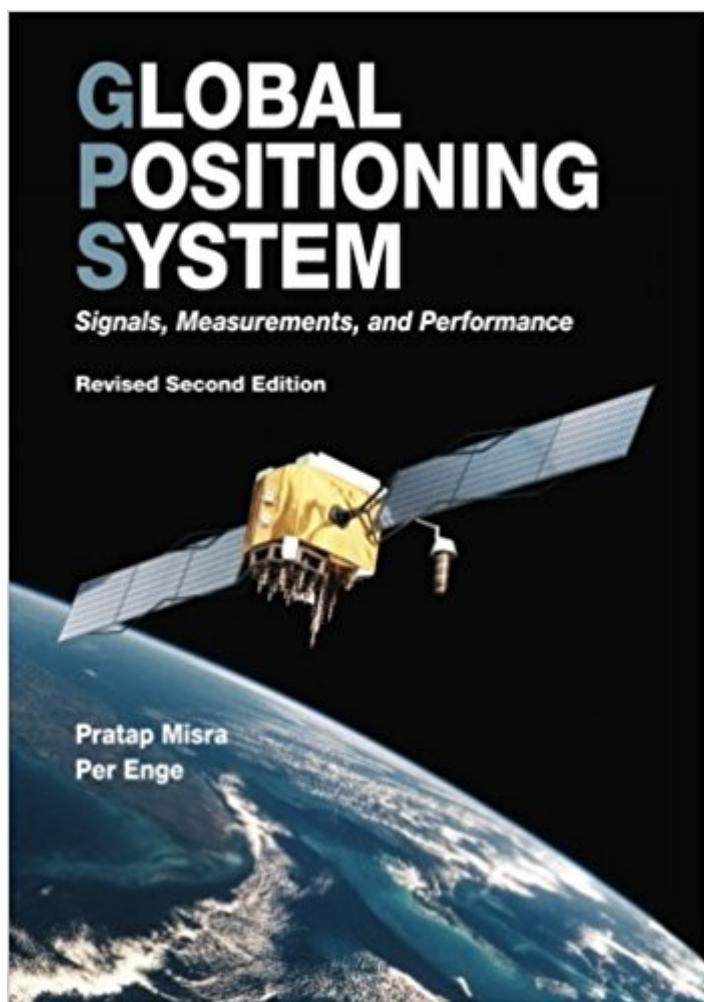


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Global Positioning System: Signals, Measurements, And Performance (Revised Second Edition)



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Synopsis

The second edition of this widely praised book offers a comprehensive introduction to GPS: the system, signals, receivers, measurements, and algorithms for estimation of position, velocity, and time. It is intended as a textbook for a senior- or graduate-level engineering course and a self-study guide for practicing engineers. The book is divided into four parts. Part I introduces the basic framework for a global navigation satellite system, including coordinate frames, time references, and satellite orbits, and provides an overview of GPS, GLONASS, and Galileo. Part II describes the fruits of GPS: estimation of position, velocity, and time. Part III discusses the ingenious structure of the GPS signals. Part IV introduces the signal processing steps required to extract the necessary measurements from these signals, and explores the challenges posed by signal blockage and RFI.

Book Information

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Customer Reviews

Pratap Misra, Ph.D., is a Senior Staff Member at Lincoln Laboratory, Massachusetts Institute of Technology. He is a Fellow of the Institute of Navigation (ION) and a Fellow of the Institute of Electrical and Electronics Engineers (IEEE). Per Enge, Ph.D., is a Professor of Aeronautics and Astronautics at Stanford University, and Director of the Stanford Center for Position, Navigation, and Time. Winner of the Institute of Navigation's Kepler award in 2000 for "sustained and significant contributions to satellite navigation," he is an ION Fellow, IEEE Fellow, and a member of the National Academy of Engineering. He is also a member of the U.S. Air Force's GPS Hall of Fame.

Best GPS book I've found, for one perfectly simple reason: starts off easy, gets more detailed in the middle and even more detailed towards the end. Keep reading until you've got the information you need. I wish all technical books were organized this way. It's like "here's the big picture of such-and-such, details will come in Chapter 8." Then in Chapter 8, you start to see the equations with more detailed narrative and "we'll explore this in even more detail in Chapter 20" or whatever. I can see an undergraduate maybe stopping with those middle chapters, grad students and professional engineers reading to the very end.

This is the current standard and book of record for GPS for engineers and physicists. Both authors are extremely highly regarded within this field and have extensive expertise and are the foremost sources on this topic. This provides a highly accurate :-) and detailed presentation on positioning. This is written by and for engineers or those who want or have a scientific, mathematical background.

This is a great book if you are beginning to study GNSS in general. The way the authors explain several GPS parts is really simple and can give the reader a true insight into the heart of the system itself. I highly recommend reading this book first before going into other books that deal with much more specialized aspects from GPS or GNSS in general.

Easily one of my more favourite textbooks. The author has a good sense of humour and takes time to explain the concepts.

Clear and as detailed as it can be for a book with a good overview on GPS. I really recommend it

I use this book at Stanford (where Prof. Enge runs the GPS Lab). It was used as the text for my first GPS class and I found it intuitive and easy to read. I got my BS in Aerospace so I struggled with some of the more EE-biased material in this book but it did a good job of explaining it.

Small dents, but just what I would expect for this price. Inside the book is clean

As to my humble experience, the book is the best in the GPS field. Organized, clear, and simple to read. One problem when you get it from , the CD does not come with it.

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