



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

By Pratap Misra, Per Enge



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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.

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Editorial Review

About the Author

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.

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