DESCRIPTION

This book describes the design and performance analysis of satnav systems, signals, and receivers, with a general approach that applies to all satnav systems and signals in use or under development. It also provides succinct descriptions and comparisons of each satnav system.

- Clearly structured, and comprehensive depiction of engineering satellite-based navigation and timing systems, signals, and receivers
- GPS as well as all new and modernized systems (SBAS, GLONASS, Galileo, BeiDou, QZSS, IRNSS) and signals being developed and fielded
- Theoretical and applied review questions, which can be used for homework or to obtain deeper insights into the material
- Extensive equations describing techniques and their performance, illustrated by MATLAB plots
- New results, novel insights, and innovative descriptions for key approaches and results in systems engineering and receiver design

If you are an instructor and adopted this book for your course, please email ieeeproposals@wiley.com to get access to the instructor files for this book.
ABOUT THE AUTHOR

John W. Betz, PhD, is a Fellow of The MITRE Corporation and an internationally recognized expert in satellite-based navigation and timing. He is an innovator whose technical contributions and personal involvement have shaped the design of modernized GPS as well as other satnav systems. He is a sought-after speaker and instructor with multiple award-winning publications, and is a Fellow of the IEEE and the Institute of Navigation. His extensive knowledge, combined with his ability to provide a clearly structured and comprehensive depiction of all aspects of satnav engineering, promise to make this book the standard text and reference for this field.

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