

ELLIOTT D. KAPLAN • CHRISTOPHER J. HEGARTY
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UNDERSTANDING

GPS

PRINCIPLES AND APPLICATIONS

SECOND EDITION



Understanding Gps Principles And Applications

Elliott D. Kaplan, Christopher Hegarty



Understanding Gps Principles And Applications:

Understanding GPS Elliott D. Kaplan, 2006 Appendix B Stability Measures for Frequency Sources 665 Appendix C Free Space Propagation Loss 669 About the Authors 675 Index 683 Mobile Communications Library *Understanding GPS/GNSS: Principles and Applications, Third Edition* Elliott D. Kaplan, Christopher Hegarty, 2017-05-31 This thoroughly updated third edition of an Artech House bestseller brings together a team of leading experts providing a current and comprehensive treatment of global navigation satellite systems GNSS that readers won't find in other resources Packed with brand new material this third edition includes new chapters on the system engineering details of GPS European Galileo system Chinese Beidou systems GLONASS and regional systems such as Quasi Zenith Satellite System QZSS and Navigation with Indian Constellation NavIC Readers also find new coverage of GNSS receivers disruptions errors stand alone GNSS performance differential and precise point positioning This single source reference provides both a quick overview of GNSS essentials and an in depth treatment of advanced topics and explores all the latest advances in technology applications and systems Readers are guided in the development of new applications and on how to evaluate their performance It explains all the differential GNSS services available to help decide which is best for a particular application The book discusses the integration of GNSS with other sensors and network assistance Readers learn how to build GNSS receivers and integrate them into navigational and communications equipment Moreover this unique volume helps determine how technology is affecting the marketplace and where best to invest in a company's resources *Understanding GPS*, 1996 *Server-side GPS and Assisted-GPS in Java* Neil Harper, 2010 Assisted GPS A GPS is a technology that greatly enhances GPS performance and capabilities This innovative book offers you a detailed explanation of the way that an A GPS server operates from a practical point of view You learn how A GPS improves critical aspects of GPS such as time to first fix TTFF and yield The book focuses on handset assisted A GPS where the server can make use of additional information and perform more effective hybrid calculations You gain insight into factors affecting accuracy and how these errors can be minimized using A GPS Moreover this unique resource includes example code in Java for all key functions along with sequence diagrams in UML that help ensure a solid understanding of the material CD ROM Included Contains valuable Java source code and example applications that illustrate key points throughout the text Complete class and sequence diagrams are also provided where applicable Fundamentals of Global Positioning System Receivers James Bao-Yen Tsui, 2004-12-20 All the expert guidance you need to understand build and operate GPS receivers The Second Edition of this acclaimed publication enables readers to understand and apply the complex operation principles of global positioning system GPS receivers Although GPS receivers are widely used in everyday life to aid in positioning and navigation this is the only text that is devoted to complete coverage of their operation principles The author one of the foremost authorities in the GPS field presents the material from a software receiver viewpoint an approach that helps readers better understand operation and that reflects the forecasted integration of

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Principles of GNSS, Inertial, and Multisensor Integrated Navigation Systems Paul David Groves, 2008 Navigation systems engineering is a red hot area More and more technical professionals are entering the field and looking for practical up to date engineering know how This single source reference answers the call providing both an introduction to overall systems operation and an in depth treatment of architecture design and component integration The book explains how satellite on board and other navigation technologies operate and it gives practitioners insight into performance issues such as processing chains and error sources Providing solutions to systems designers and engineers the book describes and compares different integration architectures and explains how to diagnose errors Moreover this hands on book includes appendices filled with terminology and equations for quick referencing

Intelligent Transport Systems Standards Bob Williams, 2008 To list summarize and categorize intelligent transportation standards ITS Reviews best practices and provides listings for standards developing organizations at national and international levels Provides guidance as to where to look in the future to find relevant standards for ITS Presents strategies for integrating standards in ITS planning deployment and operation

GNSS Markets and Applications Len Jacobson, 2007 Mostly known for GPS products the global navigation satellite systems GNSS industry is poised for dramatic growth This book provides a detailed accurate picture of the current GNSS marketplace offering keen insight into future trends It also provides complete descriptions of all major market segments highlighting risks and opportunities for growth

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