



GPS Quick Course 2nd Edition, Systems, Technology and Operation

Ben Levitan, Lawrence Harte

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This book covers satellite position location technology and the GPS system has evolved. You will learn the functional parts of GPS systems, how they work and work together to provide position measurements that are accurate to within centimeters. The operation of GPS is described including satellite acquisition, signal reception and pseudo-ranging. Discover how time reference and error correction data is used and why it is very important to provide precise satellite positioning. Global Positioning System is a navigation system that uses satellites to act as reference points for the calculation of position location. You will learn how GPS devices can use other systems or devices to provide location services when there is a temporary loss of a satellite links. Explained are the multiple types of civilian and military codes used in the GPS system and how they provide different levels of accuracy and reliability. GPS radio technology is described including the frequencies GPS uses, modulation and power levels. You will learn about the many applications that use GPS technology including mapping, location monitoring, agriculture control, navigation, navigation warfare (NAVWAR), surveying and structural deformation monitoring. Learn how GPS is used in combination with other position detection systems such as laser ranging to provide 3 dimensional charts and maps. The sources of GPS errors are explained such as orbital position errors and variation in radio propagation. You will learn ways to minimize the errors. such as receiver initialization, RTK and differential GPS (D-GPS). A brief description of the interface and data format standards is provided.

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