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Nota di contenuto	<p>""GLOBAL POSITIONING SYSTEMS ""; ""GLOBAL POSITIONING SYSTEMS""; ""CONTENTS ""; ""PREFACE""; ""HIGHER ORDER IONOSPHERIC ERRORS IN MODERNIZED GPS AND FUTURE GALILEO SYSTEMS""; ""Abstract""; ""Introduction""; ""Higher Order Ionospheric Effects""; ""Ionospheric Refractive Index""; ""Ionospheric Phase and Group Delays""; ""Ionospheric Effects on GNSS Observables""; ""Higher Order Effects Computation""; ""Third Order Residual Error""; ""Error due to TEC Difference""; ""Error due to Excess Path Length""; ""Residual Range Error in the Phase Combination""</p> <p>""Residual Range Error in the Code Combination""""Higher Order Effects Correction""; ""Residual Error (l?sTEC)tr Correction""; ""Residual Error (l?s3)tr Correction""; ""Excess Path Length (l?slen)tr Correction""; ""Quadruple-Frequency Combination""; ""New Dual-Frequency Combinations""; ""Impact of Ionosphere Free Combination""; ""Conclusion""; ""References""; ""HIGHWAY GEOMETRY DETERMINATION FROM GPS DATA""; ""Abstract""; ""Introduction""; ""Case Study""; ""GPS Devices""; ""Data Collection""; ""Data Post-Processing""; ""Determination of the Roadway Centerline""; ""Comparative Study""</p> <p>""Conclusion""""Acknowledgements""; ""References""; ""HOW LOCATION PERFORMANCE INDEXES OF GPS RADIO COLLAR REFLECT LOCATION ERRORIN MOUNT FUJI, CENTRAL JAPAN""; ""Abstract""; ""Introduction""; ""Methods""; ""Study Area""; ""Location Performance Tests""; ""Data Analyses""; ""Results""; ""Summary of Location""; ""Relationships among</p>

Location Performance Indexes"; "Discussion"; "Acknowledgements";
"References"

"APPLICATION OF A GEOGRAPHICAL INFORMATION SYSTEM (GIS) AND
THE GLOBAL POSITIONING SYSTEM (GPS) TO DENGUE VIRUS VECTOR:
AEDES MOSQUITOES DISTRIBUTION IN AN EPIDEMIC AREA OF
THAILAND, A TECHNICAL COMMENT""Abstract"; "Introduction";
"Technical Comment"; "1. Study Design"; "2. Results"; "3.

Discussion"; "References"; "ACCURATE GPS-BASED GUIDANCE OF
AGRICULTURAL VEHICLES OPERATING ON SLIPPERY GROUND";
"Abstract"; "1. Introduction"; "2. Experimental Context"; "3. Vehicle
Modeling"; "3.1. Modeling Assumptions and Notations"

"3.2. Vehicle Modeling under Non-sliding Assumption""3.3. Vehicle
Modeling Accounting for Sliding Effects"; "3.4.Measurement and
Estimation of Vehicle Variables"; "3.4.1. Direct Measurement of the
Vehicle Location"; "3.4.2. Reconstruction of the Vehicle Heading";

"3.4.3. Estimation of the Sliding Variables"; "4. Path Following Control
Law Design"; "4.1. Non-linear Control in Absence of Sliding"; "4.1.1.
Conversion of Vehicle Model (10) into Chained Form"; "4.1.2. Non-

linear Control Law Design"; "4.2. Internal Model Adaptive Control
Accounting for Sliding Effects"

"4.3. Model Predictive Control Accounting for Actuator Features"

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Sommario/riassunto

Since it became fully operational on April 27, 1995, GPS has become a widely used aid to navigation world-wide, & a useful tool for map-making, land surveying, commerce, scientific uses, tracking & surveillance, & hobbies such as geocaching. This book gathers the latest research from around the globe in this dynamic field.
