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Nota di contenuto	Cover -- Title Page -- Copyright -- Contents -- Author Biographies -- List of Figures -- List of Tables -- Chapter 1 Introduction -- 1.1 Navigation -- 1.2 Inertial Navigation -- 1.3 Pedestrian Inertial Navigation -- 1.3.1 Approaches -- 1.3.2 IMU Mounting Positions -- 1.3.3 Summary -- 1.4 Aiding Techniques for Inertial Navigation -- 1.4.1 Nonselfcontained Aiding Techniques -- 1.4.1.1 Aiding Techniques Based on Natural Signals -- 1.4.1.2 Aiding Techniques Based on Artificial Signals -- 1.4.2 Selfcontained Aiding Techniques -- 1.5 Outline of the Book -- References -- References -- Chapter 2 Inertial Sensors and Inertial Measurement Units -- 2.1 Accelerometers -- 2.1.1 Static Accelerometers -- 2.1.2 Resonant Accelerometers -- 2.2 Gyroscopes -- 2.2.1 Mechanical Gyroscopes -- 2.2.2 Optical Gyroscopes -- 2.2.2.1 Ring Laser Gyroscopes -- 2.2.2.2 Fiber Optic Gyroscopes -- 2.2.3 Nuclear Magnetic Resonance Gyroscopes -- 2.2.4 MEMS Vibratory Gyroscopes -- 2.2.4.1 Principle of Operation -- 2.2.4.2 Mode of Operation -- 2.2.4.3 Error Analysis -- 2.3 Inertial Measurement Units -- 2.3.1 Multisensor Assembly Approach -- 2.3.2 SingleChip Approach -- 2.3.3 Device Folding Approach -- 2.3.4 Chip Stacking Approach -- 2.4 Conclusions -- References -- Chapter 3 Strapdown Inertial Navigation Mechanism -- 3.1 Reference Frame -- 3.2 Navigation Mechanism in the Inertial Frame -- 3.3 Navigation

Mechanism in the Navigation Frame -- 3.4 Initialization -- 3.4.1 Tilt Sensing -- 3.4.2 Gyrocompassing -- 3.4.3 Magnetic Heading Estimation -- 3.5 Conclusions -- References -- Chapter 4 Navigation Error Analysis in Strapdown Inertial Navigation -- 4.1 Error Source Analysis -- 4.1.1 Inertial Sensor Errors -- 4.1.2 Assembly Errors -- 4.1.3 Definition of IMU Grades -- 4.1.3.1 Consumer Grade -- 4.1.3.2 Industrial Grade -- 4.1.3.3 Tactical Grade -- 4.1.3.4 Navigation Grade. 4.2 IMU Error Reduction -- 4.2.1 SixPosition Calibration -- 4.2.2 Multi position Calibration -- 4.3 Error Accumulation Analysis -- 4.3.1 Error Propagation in TwoDimensional Navigation -- 4.3.2 Error Propagation in Navigation Frame -- 4.4 Conclusions -- References -- Chapter 5 ZeroVelocity Update Aided Pedestrian Inertial Navigation -- 5.1 Zero Velocity Update Overview -- 5.2 ZeroVelocity Update Algorithm -- 5.2.1 Extended Kalman Filter -- 5.2.2 EKF in Pedestrian Inertial Navigation -- 5.2.3 ZeroVelocity Update Implementation -- 5.3 Parameter Selection -- 5.4 Conclusions -- References -- Chapter 6 Navigation Error Analysis in the ZUPTAided Pedestrian Inertial Navigation -- 6.1 Human Gait Biomechanical Model -- 6.1.1 Foot Motion in Torso Frame -- 6.1.2 Foot Motion in Navigation Frame -- 6.1.3 Parameterization of Trajectory -- 6.2 Navigation Error Analysis -- 6.2.1 Starting Point -- 6.2.2 Covariance Increase During Swing Phase -- 6.2.3 Covariance Decrease During the Stance Phase -- 6.2.4 Covariance Level Estimation -- 6.2.5 Observations -- 6.3 Verification of Analysis -- 6.3.1 Numerical Verification -- 6.3.1.1 Effect of ARW -- 6.3.1.2 Effect of VRW -- 6.3.1.3 Effect of RRW -- 6.3.2 Experimental Verification -- 6.4 Limitations of the ZUPT Aiding Technique -- 6.5 Conclusions -- References -- Chapter 7 Navigation Error Reduction in the ZUPTAided Pedestrian Inertial Navigation -- 7.1 IMUMounting Position Selection -- 7.1.1 Data Collection -- 7.1.2 Data Averaging -- 7.1.3 Data Processing Summary -- 7.1.4 Experimental Verification -- 7.2 Residual Velocity Calibration -- 7.3 Gyroscope GSensitivity Calibration -- 7.4 Navigation Error Compensation Results -- 7.5 Conclusions -- References -- Chapter 8 Adaptive ZUPTAided Pedestrian Inertial Navigation -- 8.1 Floor Type Detection -- 8.1.1 Algorithm Overview -- 8.1.2 Algorithm Implementation. 8.1.2.1 Data Partition -- 8.1.2.2 Principal Component Analysis -- 8.1.2.3 Artificial Neural Network -- 8.1.2.4 Multiple Model EKF -- 8.1.3 Navigation Result -- 8.1.4 Summary -- 8.2 Adaptive Stance Phase Detection -- 8.2.1 ZeroVelocity Detector -- 8.2.2 Adaptive Threshold Determination -- 8.2.3 Experimental Verification -- 8.2.4 Summary -- 8.3 Conclusions -- References -- Chapter 9 Sensor Fusion Approaches -- 9.1 Magnetometry -- 9.2 Altimetry -- 9.3 Computer Vision -- 9.4 MultipleIMU Approach -- 9.5 Ranging Techniques -- 9.5.1 Introduction to Ranging Techniques -- 9.5.1.1 Time of Arrival -- 9.5.1.2 Received Signal Strength -- 9.5.1.3 Angle of Arrival -- 9.5.2 Ultrasonic Ranging -- 9.5.2.1 FoottoFoot Ranging -- 9.5.2.2 Directional Ranging -- 9.5.3 Ultrawide Band Ranging -- 9.6 Conclusions -- References -- Chapter 10 Perspective on Pedestrian Inertial Navigation Systems -- 10.1 Hardware Development -- 10.2 Software Development -- 10.3 Conclusions -- References -- Index -- IEEE Press Series on Sensors -- EULA.

Sommario/riassunto

"This book is dedicated to the topic of self-contained aiding techniques in pedestrian inertial navigation. It begins with an introduction that presents the general concept of navigation including major navigation and aiding techniques. Chapter 2 describes inertial navigation implementation, where Inertial Measurement Units (IMUs) are utilized for navigation purposes. Chapter 3 presents an error analysis in the strapdown inertial navigation. Chapter 4 discusses the zero-velocity

update (ZUPT) aided inertial navigation algorithm. Chapter 5 presents ranging techniques for navigation compensation. This includes both foot-to-foot ranging and inter-agent ranging. The book concludes with a technological perspective on self-contained pedestrian inertial navigation with an outlook for development of the Ultimate Navigation Chip (uNavChip) technology"--
