

1. Record Nr.	UNINA9911152833203321
Autore	Dionne E. J., Jr.
Titolo	100% democracy : the case for universal voting / / E.J. Dionne Jr. and Miles Rapoport ; with analysis by Cornell William Brooks, Allegra Chapman, Joshua Douglas, Amber Herrle, Cecily Hines, Janai Nelson, and Brenda Wright ; [with a foreword by Heather McGhee]
Pubbl/distr/stampa	New York : , : The New Press, , 2022 ©2022
ISBN	1-62097-684-6
Edizione	[1st ed.]
Descrizione fisica	1 online resource (xxxiii, 186 pages) : illustrations
Disciplina	342.07/5
Soggetti	Voting, Compulsory Election law Civil rights
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Intro -- Foreword -- Introduction -- Chapter One -- Chapter Two -- Chapter Three -- Chapter Four -- Chapter Five -- Chapter Six -- Chapter Seven -- Chapter Eight -- Chapter Nine -- Chapter Ten -- Chapter Eleven -- Authors' Note and Acknowledgments -- Appendix A -- Appendix B -- Notes.
Sommario/riassunto	"Americans are required to pay taxes, serve on juries, get their kids vaccinated, get driver's licenses, and sometimes go to war for their country. So why not ask--or require--every American to vote? E.J. Dionne and Miles Rapoport argue that universal participation in our elections should be a cornerstone of our system. It would be the surest way to protect against voter suppression and the active disenfranchisement of a large share of our citizens. And it would create a system true to the Declaration of Independence's aspirations by calling for a government based on the consent of all of the governed." --Amazon.com.

2. Record Nr.	UNINA9911141379703321
Autore	Bekir Esmat
Titolo	Introduction to modern navigation systems // Esmat Bekir
Pubbl/distr/stampa	New Jersey, : World Scientific, c2007
ISBN	9786611918583 9781281918581 128191858X 9789812708755 9812708758
Edizione	[1st ed.]
Descrizione fisica	1 online resource (256 p.)
Disciplina	623.893 629.04/5 629.045
Soggetti	Inertial navigation systems Inertial navigation Global Positioning System
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes bibliographical references and index.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Preface; Contents; Introduction; 1. Vectors and Matrices; 1.1 Introduction; 1.2 Vector Inner Product; 1.3 Vector Cross Products and Skew Symmetric Matrix Algebra; 2. Coordinate Transformation between Orthonormal Frames; 2.1 Introduction; 2.2 Direction Cosine Matrices; 2.3 The Direction Cosine Matrix is a Unitary Matrix; 2.4 The Direction Cosine Matrix is a Transformation Matrix; 2.5 DCM Fixed Axis; 2.6 The Rotation Matrix; 2.7 Inner and Outer Transformation Matrices; 2.8 The Quaternion; 3. Forms of the Transformation Matrix; 3.1 Introduction; 3.2 Simple Frame Rotations; 3.3 Euler Angles 3.4 Rotation Vector3.5 Quaternion; 3.6 Simple Quaternions; 3.7 Conversion between Forms; 3.7.1 Conversion between DCM and Euler; 3.7.2 Conversion between DCM and Quaternion; 3.7.3 Conversion between Euler Angles and Quaternion; 3.8 Dynamics of the Transformation Matrix; 3.8.1 DCM Differential Equation; 3.8.2 Quaternion Differential Equation; 3.8.3 Rotation Vector Differential

Equation; 3.8.4 Euler Angles Differential Equation; 4. Earth and Navigation; 4.1 Introduction; 4.2 Earth, Geoid and Ellipsoid; 4.3 Radii of Curvature; 4.4 Earth, Inertial and Navigation Frames; 4.5 Earth Rate; 4.6 The Craft Rate n in e ; 4.7 Solution of the DCM n in e ; 4.8 Gravitational and Gravity Fields; 5. The Inertial Navigation System Equations; 5.1 Introduction; 5.2 Body Frame of Reference; 5.3 Inertial Sensors; 5.3.1 The Accelerometer; 5.3.2 The Rate Gyro; 5.4 The Attitude Equation; 5.5 The Navigation Equation; 5.6 Navigation Equations Computational Flow Diagram; 5.7 The Navigation Equation in Earth Frame; 6. Implementation; 6.1 Introduction; 6.2 The Rotation Vector Differential Equation; 6.3 The Attitude Equation; 6.4 The Craft Velocity Equation; 6.5 The Craft Position Equation; 6.6 The Vertical Channel; 7. Air Data Computer; 7.1 Introduction; 7.2 US Standard Atmosphere 1976; 7.3 Pressure Altitude; 7.4 Vertical Channel Parameter Estimation Using Inertial and Air Data; 7.5 Density Altitude; 7.6 Altitude (Descend/Climb) Rate; 7.7 Air Speed; 7.8 Indicated Air Speed (IAS); 8. Polar Navigation; 8.1 Introduction; 8.2 The Wander Azimuth Navigation; 8.3 Prospective of the Wander Azimuth Approach; 8.4 Polar Circle Navigation Algorithm; 8.5 Alternative Polar Circle Navigation Frame; 9. Alignment; 9.1 Introduction; 9.2 IMU Alignment; 9.3 Alternative Algorithm for b in C ; 9.4 Estimation of the Accelerometer and Gyro Biases; 9.5 Effects of Biases on Estimate of b in C ; 10. Attitude and Heading Reference System; 10.1 Introduction; 10.2 Attitude Initialization; 10.3 Heading Initialization; 10.4 Gyro Drift Compensation; 10.5 G Slaving; 10.5.1 X-Gyro Bias; 10.5.2 Y-Gyro Bias; 10.5.3 Z-Gyro Bias; 10.6 Alternative Approach for Gyro Drift Compensation; 10.7 Maneuver Detector; 10.7.1 Rate Gyro Threshold Selection; 11. GPS Aided Inertial System; 11.1 Introduction; 11.2 Navigation Frame Error Equation; 11.2.1 Craft Rate Error n in e ; 11.2.2 Earth Rate Error n in e ; 11.2.3 Position Errors

Sommario/riassunto

The emerging technology of very inexpensive inertial sensors is available for navigation as never before. The book lays the analytical foundation for understanding and implementing the navigation equations. It starts by demystifying the central theme of the frame rotation using such algorithms as the quaternions, the rotation vector and the Euler angles. After developing navigation equations, the book introduces the computational issues and discusses the physical aspects that are tied to implementing these equations. The book then explains alignment techniques.

Introduction to Modern Navigation