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| Autore                  | Regan Frank J                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| Nota di contenuto       | <p>""Cover""; ""Title""; ""Copyright""; ""Foreword""; ""Preface""; ""Table of Contents""; ""Chapter 1. Introduction""; ""1.0 Background""; ""1.1 Meteoritesa€?Nature's (Re-)Entry Bodies""; ""1.2 Artifactsa€?Manmade Re-Entry Bodies""; ""1.3 Overview""; ""References""; ""Chapter 2. Atmospheric Model""; ""2.1 Introduction""; ""2.2 Standard Atmospheres""; ""2.3 Atmospheric Description""; ""2.4 Physical Foundations of an Atmospheric Model""; ""2.5 Derived Atmospheric Quantities""; ""2.6 Exponential Atmosphere""; ""2.7 Planetary Atmospheres""; ""References""</p> <p>""Chapter 3. Earth's Form and Gravitational Field""""3.1 Introduction""; ""3.2 Geoid and Reference Ellipsoid""; ""3.3 Geocentric Position Vector""; ""3.4 Deflection of the Vertical""; ""3.5 Earth's Radius""; ""3.6 Earth's Gravitational Potential""; ""3.7 Gravitational Field in an Inertial Frame""; ""3.8 Gravitational Anomalies and Deflection of the Vertical""; ""3.9 Longitudinal Dependencies""; ""3.10 Gravity Gradient""; ""References"";</p> <p>""Chapter 4. Axis Transformations""; ""4.1 Background""; ""4.2 Directional Cosine Matrix""; ""4.3 Updating the DCM""; ""4.4 Euler Angles""</p> <p>""4.5 Updating Euler Angles""""4.6 Axis/Angle Parameters""; ""4.7 Updating the Axis/Angle Parameters""; ""4.8 Euler Four-Parameter Method (Quaternions)""; ""4.9 Summary""; ""References""; ""Chapter 5. Force and Moment Equations""; ""5.1 Newton's Second Law of Motion"";</p> |

""5.2 Vector Differentiation""; ""5.3 Force Equations""; ""5.4 Moment Equations""; ""5.5 Calculation of the Moments and Products of Inertia""; ""References""; ""Bibliography""; ""Chapter 6. Keplerian Motion""; ""6.1 Equations of Motion""; ""6.2 Impact Equations""; ""6.3 Time of Flight""; ""6.4 Error Analysis""  
""6.5 Oblateness Effects""""6.6 Earth Rotation Effects""; ""6.7 Deployment Attitudes""; ""6.8 Summary""; ""References""; ""Chapter 7. Re-Entry Vehicle Particle Mechanics""; ""7.1 Re-Entry Physics""; ""7.2 Equations of Planar Motion""; ""7.3 Re-Entry Case Studies""; ""7.4 Some Nondimensional Representations""; ""7.5 Heat Transfer and Dynamics""; ""References""; ""Chapter 8. Decoys and the Identification of Re-Entry Vehicles""; ""8.1 Introduction""; ""8.2 Estimators""; ""8.3 Decoy Effectiveness""; ""References""; ""Chapter 9. Maneuvering Re-Entry Vehicles: Particle Motion""  
""9.1 Introduction""""9.2 Drag Polar""; ""9.3 MaRV State Equations""; ""9.4 Diveline Guidance""; ""9.5 Determining the Projected Interception Point""; ""9.6 Interceptor Guidance Equations""; ""9.7 Interceptor State Equations""; ""9.8 Simulation Results""; ""9.9 Other Guidance Laws and Summary""; ""References""; ""Bibliography""; ""Chapter 10. Angular Motion During the Exoatmospheric (Keplerian) Phase""; ""10.1 Introduction""; ""10.2 Re-Entry Vehicle Deployment""; ""10.3 Analytical Treatment of Torque-Free Motion""; ""10.4 Torque-Free Motiona€? Poincot Construction""; ""10.5 Relative Motion""  
""References""

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