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Nota di contenuto	Cover; Title Page; Copyright Page; Preface; Contents; Chapter 1 The Morphology of Flight Vehicles; 1.1 Introduction; 1.2 Key factors affecting vehicle configuration; 1.3 Some representative flight vehicles; 1.4 Problems; Chapter 2 Equations of Motion for Rigid Flight Vehicles; 2.1 Definitions; vector and scalar realizations of Newton's second law; 2.2 The tensor of inertia; 2.3 Choice of vehicle axes; 2.4 Orientation of the vehicle relative to the ground ; flight-path determination; 2.5 Gravitational terms in the equations of motion; 2.6 The state vector 2.7 Three significant phenomena that have been neglected2.8 Problems; Chapter 3 Introduction to Vehicle Aerodynamics; 3.1 Aerodynamic contributions to X, Z, and MP; dimensionless coefficients defined; 3.2 Equations of perturbed longitudinal motion ; categories of problems in flight dynamics; 3.3 Problems; Chapter 4 Aerodynamic Terms for Equations of Motion; Airloads on Thin Wings; 4.1 Inviscid

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4.4 Compressibility correction at subsonic and supersonic speeds4.5 Thin airfoil in two-dimensional supersonic flow; 4.6 Shock-expansion methods for thicker supersonic airfoils; 4.7 Three-dimensional wings in subsonic flight; 4.8 Three-dimensional wings in supersonic flight; 4.9 Problems; Chapter 5 Propulsive Terms-One-Dimensional Analysis of Jet and Rocket Propulsion; 5.1 Turbojet operation; steady-flow energy equation; partition of thrust and drag; 5.2 One-dimensional analysis of ideal ramjet and turbojet; 5.3 Rocket propulsion
5.4 One-dimensional analysis of turbojet with realistic component efficiencies5.5 Actual turbojet performance; 5.6 Problems; Chapter 6 Small-Perturbation Response and Dynamic Stability of Flight Vehicles; 6.1 Equations of motion; aerodynamic approximations; stability derivatives; 6.2 Dimensionless equations of motion; 6.3 Estimation of stability derivatives: longitudinal; 6.4 Estimation of stability derivatives : lateral; 6.5 Problems; Chapter 7 Solution of the Small-Perturbation Equations of Motion; 7.1 A simplified look at a lateral response; 7.2 Lateral-directional normal modes
comparison with the complete lateral equations of motion roots-locus technique; 7.3 Longitudinal stability and response; exact and approximate properties of the normal modes; 7.4 Handling qualities; 7.5 Problems; Chapter 8 Static Stability, Trim, Static Performance and Related Subjects; 8.1 Impact of stability requirements on design and longitudinal control; 8.2 Static performance; 8.3 Problems; Chapter 9 Dynamic Performance: Boost from Nonrotating and Rotating Planets; Numerical Integration of Ordinary Differential Equations; 9.1 Introduction
9.2 Numerical integration of ordinary differential equations

Sommario/riassunto

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