

# Flight Dynamics Principles

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### **Chapter 4**

38 CHAPTER 4 DYNAMICAL EQUATIONS FOR FLIGHT VEHICLES The other products of inertia,  $I_{xy}$  and  $I_{yz}$ , are automatically zero by vehicle symmetry When all products of inertia are equal to zero, the axes are said to be principal axes • to choose the orientation of the x-axis so that it is parallel to the velocity vector for an initial equilibrium

### **ON FLIGHT DYNAMICS MAGNUS ROTORS**

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airplanes use the same principles of aerodynamics used by the Wright brothers in 1903 In order to gain an understand-ing of flight, it is important to understand the forces of flight (lift, weight, drag, and thrust), the Bernoulli Principle, and Newton's first and third laws of motion

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