

Basic Aerodynamics

III. Basic Aerodynamics

- The Atmosphere
- Physics
- **The Airfoil**
- Lift & Drag
- Stability
- Large Aircraft Flight Controls

The Airfoil

•Flight Forces

•As we looked at before, there are four forces being applied to an airplane in flight:

- Lift (up)
- Weight (down)
- Thrust (forward)
- Drag (aft)

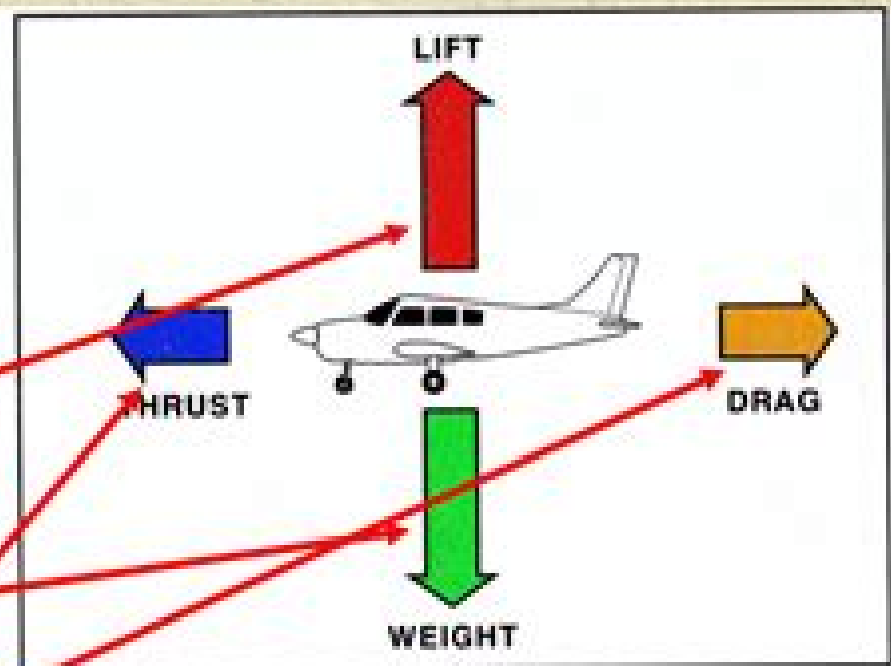
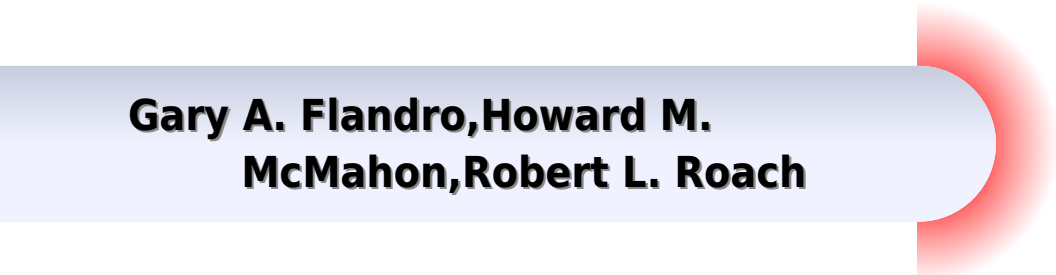


Figure 2-62. The four aerodynamic forces are in equilibrium during straight-and-level, unaccelerated flight. Lift is equal to and directly opposite weight and thrust is equal to and directly opposite drag.

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