

Example 10: Dragforce, Dragcoefficient, Terminal Velocity, Dragforce Equation

10.1. Dragforce, Dragcoefficient, Dragforce Equation, Dragforce, Dragcoefficient

Q1.1 A jet airplane is producing thrust at an almost constant speed of 1000 km/h at an altitude of 10 km. Estimate the drag of the airplane.

Solution

An aircraft equilibrium thrust equation can be used:

$$T = D + W \sin \theta$$

Q1.2 A large commercial airplane takes a typical cruise at 900 km/h altitude of 10 km. Estimate the drag of the airplane. Assume the drag coefficient is 0.02. Estimate the thrust of the airplane. Assume the thrust is 100,000 N.

Solution

$$T = D + W \sin \theta \quad \text{or} \quad D = T - W \sin \theta$$

$$D = 100,000 \text{ N} - (100,000 \text{ N}) \sin \theta \quad \text{or} \quad D = 100,000 (1 - \sin \theta) \text{ N}$$

$$\sin \theta = \frac{W \sin \theta}{W} = \frac{W \sin \theta}{mg}$$

$$\sin \theta = \frac{100,000 (1 - \sin \theta)}{mg}$$

Q1.3 A jet airplane is in a climb at 1000 km/h at an altitude of 10 km. Estimate the drag of the airplane. Assume the thrust is 100,000 N.

Solution

Using a thrust equation, the drag force can be estimated:

$$T = D + W \sin \theta \quad \text{or} \quad D = T - W \sin \theta$$

Theory Of Propulsion Solution Manual

S Ashworth



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