

Terminology

Drag Force A force that opposes or resists motion, caused by collisions of moving objects with molecules in a fluid like air or water

Terminal Velocity The constant speed a freely falling object will eventually reach when the fluid through which the object is falling prevents further acceleration

Equation

F_{drag} : drag force

C_{drag} : drag constant

A : surface area

ρ ("rho") : density of the fluid

V : velocity of object

Example Problem

Equation

$$F_D = \frac{1}{2} \rho A C_D v^2$$



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