

1.1

1.1 The force, F , of the wind blowing against a building is given by $F = C_D \rho V^2 A / 2$, where V is the wind speed, ρ the density of the air, A the cross-sectional area of the building, and C_D is a constant termed the drag coefficient. Determine the dimensions of the drag coefficient.

$$F = C_D \rho V^2 A / 2$$

or

$$C_D = 2F / \rho V^2 A, \text{ where } F \doteq M L T^{-2}$$

$$\rho \doteq M L^{-3}$$

$$V \doteq L T^{-1}$$

$$A \doteq L^2$$

Thus,

$$C_D \doteq (M L T^{-2}) / [(M L^{-3})(L T^{-1})^2 (L^2)] = M^0 L^0 T^0$$

Hence, C_D is dimensionless.

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Bruce R. Munson



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