

Summary M3 Topic 5: Dimensions and units

References:
Chapter 5
Pages 168-171

The three fundamental dimensions

Mass Length Time
M L T

E.g. $KE = \frac{1}{2}mv^2$
 $\Rightarrow [KE] = \left[\frac{1}{2}mv^2 \right] = M(LT^{-1})^2 = ML^2T^{-2}$

Example 5.1
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Other dimensions

[Area] means the dimensions of area which is L^2 .
 [Area] = L^2 [Volume] = L^3
 [Speed] = LT^{-1}

E.g. $v = u + at$
 $[v] = [u + at]$
 Dimensions of L.H.S. are LT^{-1}
 Dimensions of R.H.S. are LT^{-1} and $LT^{-2} \cdot T = LT^{-1}$
 So the formula has dimensional consistency.

Area

Volume

Speed

Acceleration

Force

Energy

Power

Pressure

Area is a two-dimensional quantity. It is measured in square units. The dimensions of area are L^2 .

Volume is a three-dimensional quantity. It is measured in cubic units. The dimensions of volume are L^3 .

Speed is a one-dimensional quantity. It is measured in units of length per unit time. The dimensions of speed are LT^{-1} .

Acceleration is a one-dimensional quantity. It is measured in units of length per unit time squared. The dimensions of acceleration are LT^{-2} .

Force is a one-dimensional quantity. It is measured in units of mass times length per unit time squared. The dimensions of force are MLT^{-2} .

Energy is a one-dimensional quantity. It is measured in units of mass times length squared per unit time squared. The dimensions of energy are ML^2T^{-2} .

Power is a one-dimensional quantity. It is measured in units of mass times length squared per unit time cubed. The dimensions of power are ML^2T^{-3} .

Pressure is a one-dimensional quantity. It is measured in units of mass times length per unit time squared per unit area. The dimensions of pressure are $ML^{-1}T^{-2}$.

The dimensions of area are L^2 . The dimensions of volume are L^3 . The dimensions of speed are LT^{-1} . The dimensions of acceleration are LT^{-2} . The dimensions of force are MLT^{-2} . The dimensions of energy are ML^2T^{-2} . The dimensions of power are ML^2T^{-3} . The dimensions of pressure are $ML^{-1}T^{-2}$.

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Chao Zhang



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