

PREFIXES

		mass	time	length
10^3	kilo	kg	ks	kmm
1		g	s	m
10^{-1}	centi			cm
10^{-2}	milli	mg	ms	mm
10^{-6}	micro	μg	μs	μm

used on in → ray astronomy

Conversions

How to convert units

from g/cm^3 TO kg/m^3

Ex: $(5.2 \text{ g/cm}^3) \left(\frac{1 \text{ kg}}{1000 \text{ g}} \right) \left(\frac{100 \text{ cm}}{1 \text{ m}} \right)^3 = 5200 \frac{\text{kg}}{\text{m}^3}$

volume density

Ex:

$$25.0 \text{ pounds} \xrightarrow{\text{sig figs}} \frac{25.0 \text{ pounds}}{\text{in}^2} \rightarrow ? \frac{\text{N}}{\text{m}^2}$$

$$1 \text{ pound} = 4.45 \text{ newtons [N]}$$

$$1 \text{ inch} = 2.54 \text{ cm}$$

$$\frac{25.0 \text{ pounds}}{\text{in}^2} \left(\frac{1 \text{ in}}{2.54 \text{ cm}} \right)^2 \left(\frac{100 \text{ cm}}{1 \text{ m}} \right)^2 \left(\frac{4.45 \text{ N}}{1 \text{ pound}} \right) = 172438 \text{ N/m}^2$$

$$\frac{25.0 \text{ pounds}}{\text{in}^2} = 172 \text{ N/m}^2$$

SIMPLE ERROR ANALYSIS RULESgiven $A \pm \Delta A$ & $B \pm \Delta B$ ADDITION: $C = A + B$ SUBTRACTION: $C = A - B$

$$\Delta C = \Delta A + \Delta B$$

add absolute errors

Alternatively (a more technically correct)

$$\Delta C = \sqrt{(\Delta A)^2 + (\Delta B)^2}$$

Both are technically correct

MULTIPLICATION: $C = AB$ DIVISION: $C = A/B$

$$\frac{\Delta C}{C} = \frac{\Delta A}{A} + \frac{\Delta B}{B}$$

add relative errors

Ex: Power Rule

$$C = A^2 = A \cdot A$$

$$\frac{\Delta C}{C} = \frac{\Delta A}{A} + \frac{\Delta A}{A} = 2 \frac{\Delta A}{A} ; \Delta C = 2A \Delta A$$

In general, $C = A^n$ then

$$\frac{\Delta C}{C} = |n| \frac{\Delta A}{A}$$

Ex: Multiplication by constant

$$C = \pi A$$

$$\frac{\Delta C}{C} = \frac{\Delta \pi}{\pi} + \frac{\Delta A}{A} ; \Delta C = \left(\frac{\Delta \pi}{\pi} + \frac{\Delta A}{A} \right) C = (\pi A) \frac{\Delta A}{A}$$

$$\Delta C = \pi \Delta A$$

* These rules are sufficient for labs & homework for this course

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