

# UNITS AND MEASUREMENT

## \* VERNIER CALLIPER



\* Least count = 1 mm  
↳ main scale

\* Least count =  $\frac{1\text{MSD} - 1\text{VSD}}{N}$   
↳ vernier

→  $10^{\text{th}} \text{ div V.S} = 9^{\text{th}} \text{ div Main Scale}$

$1 \text{ div V.S} = \frac{9}{10} = 0.9 \text{ div MS}$

$LC = 1\text{mm} - 0.9 = 0.1\text{mm}$

### \* Reading =

Read = (main scale Reading) +  
(No. of division which exactly coincide with a number of main division  $\times$  Least Count)

# Least count of screw gage scale (normal) = 1mm  
VS → 0.1mm

Screw gage = 0.01mm

1 Rotation → 100 div → 1mm

$LC = 1 \text{ div} = \frac{1}{100} \text{ mm}$

## # UNITS =

Luminous intensity = Cd  
Plane angle → Rad

## # Defined Quantity =

Energy → Joule → N-m  
→  $\frac{\text{kg m}^2}{\text{s}^2} \Rightarrow [M^1 L^2 T^{-2}]$

Gravitation =  $\frac{Gm_1 m_2}{r^2} = \frac{\text{Nm}^2}{\text{kg}^2}$

$G = \frac{Fr^2}{m_1 m_2} \Rightarrow \frac{\text{kg m}}{\text{s}^2} \times \frac{\text{m}^2}{\text{kg}^2}$   
[ $M^{-1} L^3 T^{-2}$ ]

SI units = system int-1  
CGS units -  
FPS units -  
MKS units

\* Significant figures =  
all non zero are significant

42.3 = 3 significant

243.4 = 4 significant

→ A zero becomes significant figure if it lies between two non zero significant figures.

5.303 = 4 significant

5.601 = 4 " "

→ If zero not in b/w any non-zero number. Then

0.543 = 3 SF

0.045 = 2 SF

→ If zero is in the last of the values.

4.330 → 4 SF

433.000 → 6 SF

→ In exponential form on the numeric values are counted.

$4.35 \times 10^2 = 3 \text{ SF}$

$4.92 \times 10^{-5} = 3 \text{ SF}$

### \* Application of SF =

Rounding off =

a → 33.3 → [1]

b → 0.313 → [3]

c → 3.11 → [2]

36.723  
always round off to till last decimal place

∴ 36.7

→ If the 0 digits to be dropped is 5 and is followed only by zeros, the last remaining remaining digit is increased by one if it is odd, but left as it is if even.

1.76500 = 1.76 } upto 3

1.75500 = 1.76 } SF

### \* Dimensional analysis =

on adding the unit is same.

eg:  $v = u + at$

$\frac{\text{m}}{\text{s}} = \frac{\text{m}}{\text{s}} + \frac{\text{m}}{\text{s}^2} \times \text{s}$

### \* Principle of Homogeneity

→ two quantity in add or subtraction should have same dimension.

→ quantities on either side of expression should have same dimension.

$0 = \frac{A}{t} + Bt^2 + Ct^3$

dimension = ?  
m/s    m/s    m/s

$Bt^2 = \text{m/s}$

$B = \frac{\text{m/s}}{t^2} \Rightarrow \text{m/s}^3$

[ $M^0 T^{-3} L^1$ ]

### # Errors =

Instrument error

Systematic error = due to calibration

Random error = ambient condition - Tuffan

Personal error

# Short Notes Instrumentation Engineering

**Daniel F McAuley**



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