

# 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]

$\frac{36.723}{36.723}$

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.

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

dimension = ?  
m/s    m/s    m/s

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

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

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

### # Errors =

Instrument error  
Systematic error = due to calibration

Random error = ambient condition - Tuffan

Personal error

# Short Notes Instrumentation Engineering

**Clemens Wendtner**



## **Short Notes Instrumentation Engineering:**

The book delves into Short Notes Instrumentation Engineering. Short Notes Instrumentation Engineering is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Short Notes Instrumentation Engineering, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Short Notes Instrumentation Engineering
- Chapter 2: Essential Elements of Short Notes Instrumentation Engineering
- Chapter 3: Short Notes Instrumentation Engineering in Everyday Life
- Chapter 4: Short Notes Instrumentation Engineering in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Short Notes Instrumentation Engineering. This chapter will explore what Short Notes Instrumentation Engineering is, why Short Notes Instrumentation Engineering is vital, and how to effectively learn about Short Notes Instrumentation Engineering.

3. In chapter 2, this book will delve into the foundational concepts of Short Notes Instrumentation Engineering. This chapter will elucidate the essential principles that need to be understood to grasp Short Notes Instrumentation Engineering in its entirety.

4. In chapter 3, this book will examine the practical applications of Short Notes Instrumentation Engineering in daily life. The third chapter will showcase real-world examples of how Short Notes Instrumentation Engineering can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Short Notes Instrumentation Engineering in specific contexts. This chapter will explore how Short Notes Instrumentation Engineering is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, the author will draw a conclusion about Short Notes Instrumentation Engineering. The final chapter will summarize the key points that have been discussed throughout the book.

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