

THERMODYNAMICS

★ THERMODYNAMICS :

It is the combination of two words:

- Therm: Heat energy.
- Dynamics: Mechanical energy.

★ SCALES OF TEMPERATURE :

Temperature can be measured by the following '3' Scales.

| | <u>Quantity</u> | <u>°C</u> | <u>°F</u> | <u>K</u> |
|----|-------------------------|-----------|-----------|----------|
| 1. | Boiling Point | 100°C | 212°F | 373 K |
| 2. | Melting Point | 0°C | 32°F | 273 K |
| 3. | Divisions b/w B.P & M.P | 100 | 180 | 100 |

★ TEMPERATURE :

↳ Intensity or degree of hotness and coldness.

- Denoted: T.
- Nature: Scalar.
- SI unit: K.
- Dimension: [K], [Θ].
- Other units: °C, °F.
- Measurement: Thermometer.

★ RELATIONSHIP b/w SCALES :

$$\Rightarrow \frac{\text{Scale Reading} - \text{Freezing Point (H}_2\text{O)}}{\text{no of divisions}} = \frac{\text{Scale} \cdot R - \text{Freezing P (H}_2\text{O)}}{\text{no of divisions}}$$

$$\Rightarrow \frac{^{\circ}\text{C} - 0^{\circ}}{100} = \frac{\text{K} - 273}{100} \quad \text{and} \quad \Rightarrow$$

$$\frac{^{\circ}\text{C} - 0^{\circ}}{100} = \frac{^{\circ}\text{F} - 32^{\circ}}{180}$$

$$\frac{^{\circ}\text{C}}{10} = \frac{^{\circ}\text{F} - 32^{\circ}}{18} \Rightarrow ^{\circ}\text{C} = \frac{5}{9} (^{\circ}\text{F} - 32^{\circ})$$

$$\boxed{^{\circ}\text{C} = \text{K} - 273}$$

$$\boxed{^{\circ}\text{C} = \frac{5}{9} (^{\circ}\text{F} - 32)} \quad \text{or}$$

$$\boxed{^{\circ}\text{F} = \frac{9}{5} (^{\circ}\text{C} + 32)}$$

(1)

→ At -40, °C and °F readings are equal.

→ At 574.6, °F and K readings are equal.

Engineering Thermodynamics Notes

Massachusetts Institute of Technology

A red circular graphic element with a gradient, partially overlapping the right side of the MIT logo bar.

Engineering Thermodynamics Notes:

The Enigmatic Realm of **Engineering Thermodynamics Notes**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Engineering Thermodynamics Notes** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

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