

## CH. 7 : Temperature

Temperature can be determined by

- changing volume → Pressure at constant volume
- changing colour → volume at constant Pressure
- changing resistance

Celsius  
kelvin  
Feh

$$\begin{aligned} & T_c \\ & T_c + 273 \\ & \frac{9}{5} T_c + 32 \end{aligned}$$

$$\begin{aligned} \therefore T_c = 0 & \rightarrow T_f = 10 \\ \Delta t = 10 - 0 & = 10 \\ \Delta t = 283 - 273 & = 10 \\ \Delta t = 50 - 32 & = 18 \end{aligned}$$

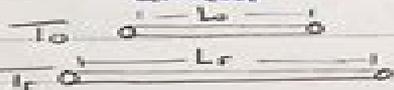
Zero<sup>th</sup> Law

$$\begin{aligned} & \textcircled{A} \textcircled{B} \quad T_A < T_B \\ \therefore \textcircled{A} \textcircled{C} & \quad \textcircled{B} \textcircled{C} \\ \therefore \textcircled{A} \textcircled{B} & \quad \text{equilibrium} \end{aligned}$$

Thermal equilibrium

### Thermal expansion

Linear



$$\begin{aligned} \Delta L &= \alpha L_0 \Delta T \\ L_r - L_0 &= \alpha L_0 \Delta T \\ L_r &= \alpha L_0 \Delta T + L_0 \\ L_r &= L_0 (\alpha \Delta T + 1) \end{aligned}$$

$\alpha$  average coeff.  
of linear expansion

Surface



$$\begin{aligned} \Delta A &= \gamma A_0 \Delta T \\ A_r - A_0 &= \gamma A_0 \Delta T \\ A_r &= A_0 (\gamma \Delta T + 1) \end{aligned}$$

average coeff.  
of surface  
expansion

Volume



$$\begin{aligned} \Delta V &= \beta V_0 \Delta T \\ V_r - V_0 &= \beta V_0 \Delta T \\ V_r &= V_0 (\beta \Delta T + 1) \end{aligned}$$

average coeff.  
of volume  
expansion

# Progress In High Temperature In Phy Volume 5

**R Barnett**



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