

K: thermal conductivity.

Keu ~380 W.K

Kair ~ 0.06 W.K

KAI ~ 170 W.K

Kdiamod ~ 1000 W.K

graphite/graphene ~ 500 m.k ~ 2000 m.k 5000 m.k 5000 m.k

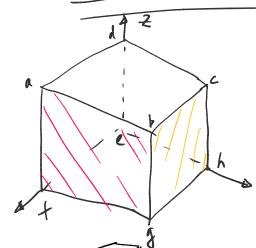
$$\nabla T : Temp. gradient$$

$$\nabla T = \begin{pmatrix} dT \\ dX \end{pmatrix} \frac{\partial E}{m} = \frac{K}{m}$$
distance

Form B: 9 = -K.A. PT

A tent transform attantor conduction.

A is normal to PT



$$\mathbf{g} = -KA\frac{dT}{dx}$$

$$= -K \cdot A_{S} \cdot \frac{\overline{L} - \overline{I}_{I}}{L - 0}$$

$$= K \cdot A_{S} \cdot \frac{\overline{I}_{I} - \overline{I}_{I}}{L} = 0$$

= K.As. T. - Tz >0 - distance 1D. const K, w/o, q'' internal hast generation Q=K.A. \(\D \)

J-D.

Case I: Case II $q = -k \cdot A \cdot \frac{dI}{dS} = -k \cdot (r_2 - r_1) \cdot k \cdot \frac{r_2 - r_1}{(r_1 + r_2) \cdot r_1}$ $\int_{MC} |angth|$ T: linear Temp distribution, Temp as a function of location Tex) = ax +b it. Ta) = ax2+bx +c [0c] is a, b, c units [me] [m] [%]

ii) Kisgilen

Figure (x) King item

$$g''(x) \quad \text{heat } f(wx) \quad \text{distribution.}$$

$$g''' = -k \cdot \frac{dI}{dx} \quad \text{d}$$

$$\frac{dI(x)}{dx} = \frac{d}{dx} \left(\alpha x^2 + bx + C \right) = 2\alpha x + b$$

$$\Rightarrow g''(x) = -k(2\alpha x + b)$$

$$c = \frac{\zeta}{q} \cdot c + \frac{\zeta}{q} = -32$$