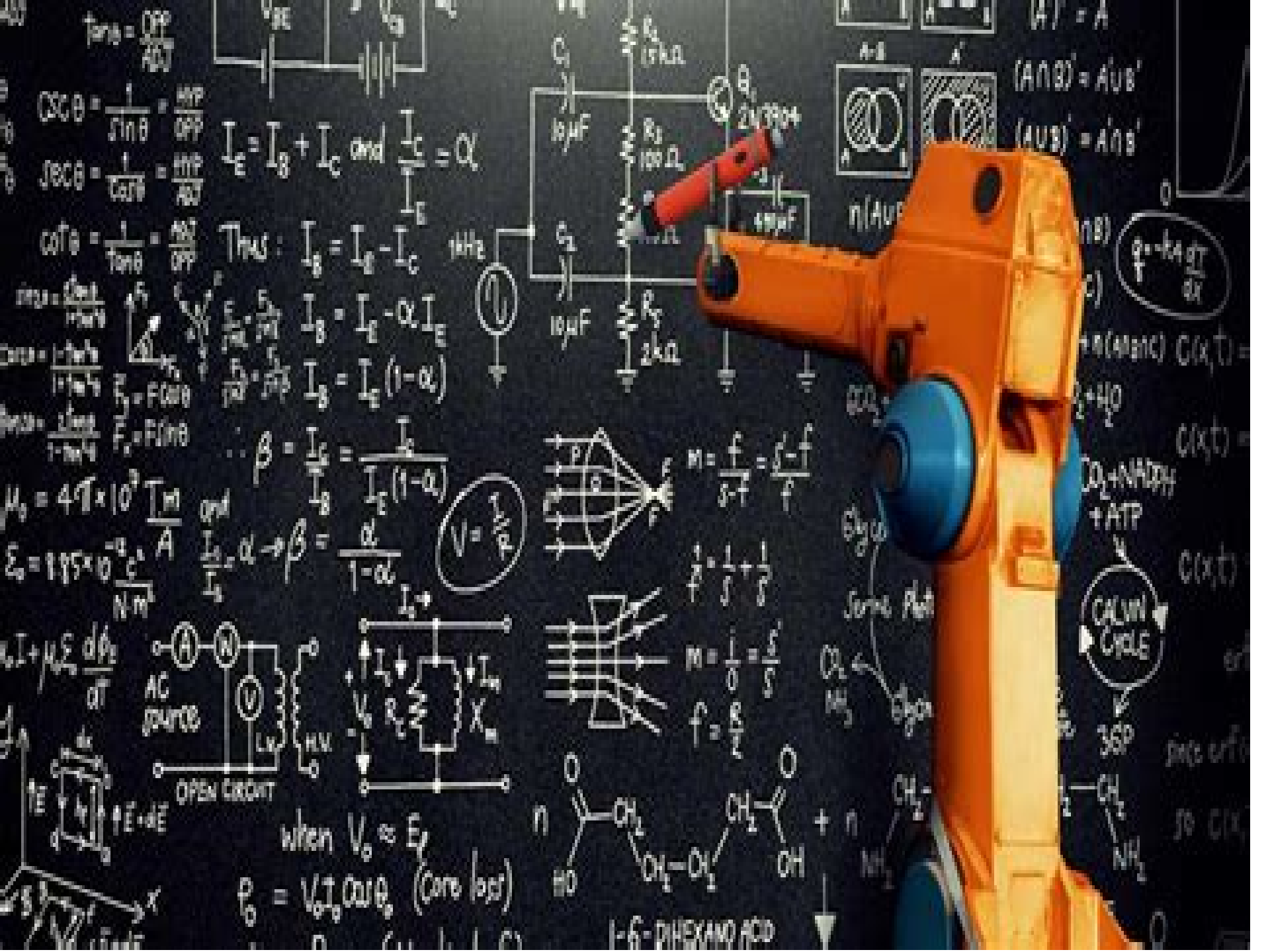




$$\tan \theta = \frac{OPP}{ADJ}$$

$$\csc \theta = \frac{1}{\sin \theta} = \frac{HYP}{OPP}$$

$$\sec \theta = \frac{1}{\cos \theta} = \frac{HYP}{ADJ}$$

$$\cot \theta = \frac{1}{\tan \theta} = \frac{ADJ}{OPP}$$



$$I_E = I_B + I_C \text{ and } \frac{I_C}{I_E} = \alpha$$

$$\text{Thus: } I_B = I_E - I_C$$

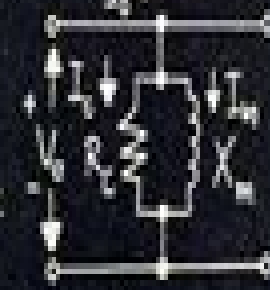
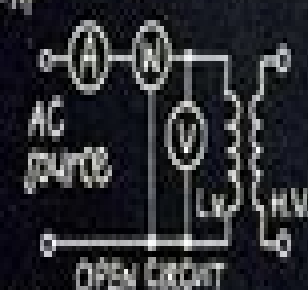
$$I_B = I_E - \alpha I_E$$

$$I_B = I_E (1 - \alpha)$$

$$\beta = \frac{I_C}{I_B} = \frac{I_C}{I_E (1 - \alpha)}$$

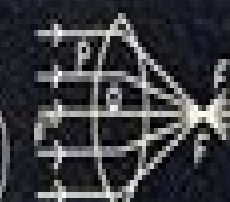
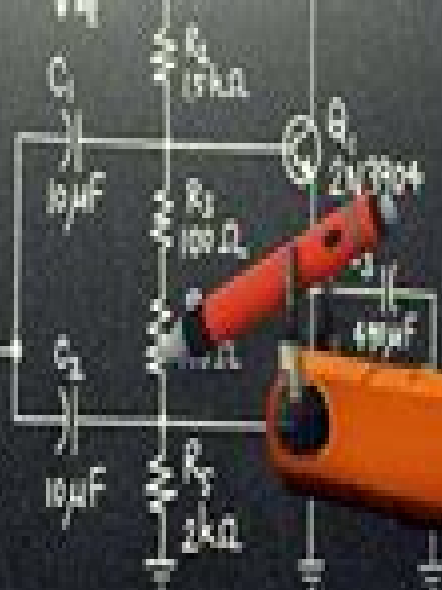
$$\frac{I_C}{I_E} = \alpha \rightarrow \beta = \frac{\alpha}{1 - \alpha}$$

$$V = \frac{1}{R}$$

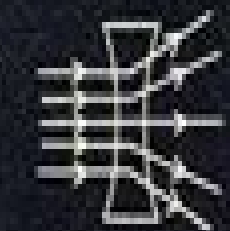


when $V_o \approx E_p$

$$P_o = V_o I_o \cos \theta_o \text{ (core loss)}$$



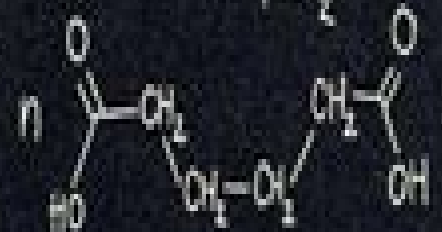
$$M = \frac{f}{s-f} = \frac{s'-f}{f}$$



$$\frac{1}{f} = \frac{1}{s} + \frac{1}{s'}$$

$$M = \frac{i}{o} = \frac{s'}{s}$$

$$f = \frac{R}{L}$$



1,6-DIHEXANOIC

$$A \cup A = A$$

$$A \cap A = A$$

$$(A \cap B)' = A' \cup B'$$

$$(A \cup B)' = A' \cap B'$$

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$$n(A \cap B)$$

$$n(A)$$

$$n(B)$$

$$q = -kA \frac{dT}{dx}$$

$$C(x,t) =$$

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Mathematical Programming Applications

Gautam Mitra



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