Exercise 1-8

Wednesday, 22 April 2020 13:46

$$\begin{aligned} & 60 \cdot 10^{-3} = 2000 + (200)^{2} \\ & = 2000 + 40000 \\ \\ & L = \frac{60 \cdot 10^{-3} - 40000 \\ 200 \end{aligned}$$

$$40 \cdot 10^{-3} = 400 \ a + 160000 \ b$$
$$= 1200 \cdot 10^{-4} - 400 \cdot 200 \ b + 160000 \ b$$
$$L_{5} - 80 \cdot 10^{-3} = 80000 \ b$$
$$\frac{1}{6} = \frac{-80 \cdot 10^{-3}}{80000} = -1.10^{-6}$$

a=3.10-4+200.10-6 = 5.10-4

 $\begin{aligned} \mathcal{E} = 36 \cdot 10^{-3} V \rightarrow 30 \cdot 10^{-3} = 5 \cdot 10^{-4} T - 10^{-6} T^2 \\ \mathcal{E} \\ 3 &= 5 \cdot 10^{-2} T - 10^{-4} T^2 \end{aligned}$ ¥ 10-4 T - 5 - 10-2 T + 3=0

$$D = 25 \cdot 10^{-4} - 4 \cdot 10^{-4} \cdot 3 = 13 \cdot 10^{-4}$$

$$T = \frac{5 \cdot 10^{-2} \pm 9 18 \cdot 10^{-4}}{2 \cdot 10^{-4}} = 430,3(07) \frac{69}{7},\frac{2}{7}$$

°nfi as T↑, 20 T= 430,3 °C