

Example 4.9.10

Solution : Two displacements : No element under $x_1(t)$ alone as force is directly applied to a spring K_1 . So it will store energy and hence is the cause to change the force applied to M_2 . Hence displacement of M_2 is x_2 and as B_2 and K_2 are connected to fixed supports both are under $x_2(t)$ only as shown in the equivalent system.

At node 1, $f(t) = K_1 (x_1 - x_2)$... (1)

At node 2, $0 = K_1 (x_2 - x_1) + K_2 x_2 + M_2 \frac{d^2 x_2}{dt^2} + B_2 \frac{dx_2}{dt}$... (2)

i) F-V analogy : $M \rightarrow L, B \rightarrow R, K \rightarrow 1/C, x \rightarrow \int i dt, \frac{dx}{dt} \rightarrow i, \frac{d^2 x}{dt^2} \rightarrow \frac{di}{dt}$

$$v(t) = \frac{1}{C_1} \int (i_1 - i_2) dt \quad \dots (3) \text{ Loop (1)}$$

$$0 = \frac{1}{C_1} \int (i_2 - i_1) dt + L_2 \frac{di_2}{dt} + \frac{1}{C_2} \int i_2 dt + R_2 i_2 \quad \dots (4) \text{ Loop (2)}$$

The F-V analogous network is shown in the Fig. 4.1.

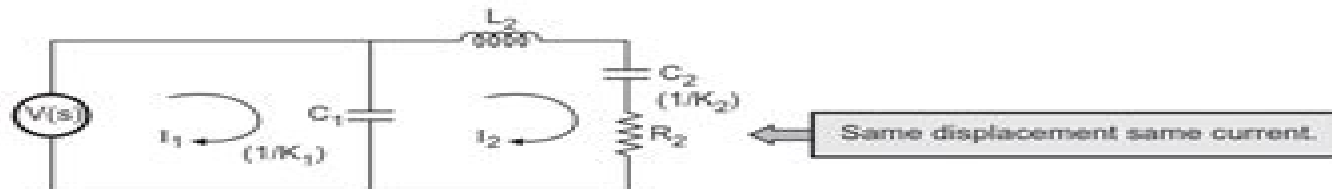


Fig. 4.1

ii) F - I analogy : $M \rightarrow C, B \rightarrow 1/R, K \rightarrow 1/L, x \rightarrow \int v dt, \frac{dx}{dt} \rightarrow v, \frac{d^2 x}{dt^2} \rightarrow \frac{dv}{dt}$

$$\therefore i(t) = \frac{1}{L_1} \int (v_1 - v_2) dt \quad \dots (5) \text{ Node (1)}$$

$$0 = \frac{1}{L_1} \int (v_2 - v_1) dt + C_2 \frac{dv_2}{dt} + \frac{v_2}{R_2} + \frac{1}{L_2} \int v_2 dt \quad \dots (6) \text{ Node (2)}$$

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