$$E = L I_1 + M I_2 + R I_1$$

$$O = R I_2 + L I_2 + M I_1$$

2govlye, ze
$$I_1$$
; I_2 so store:
 $I_2 = 0$ $I_1 = \frac{\varepsilon}{R}$
 $RORJ$ $I_1 = Ae^{-\omega t}$ $I_2 = Be^{-\omega t}$
 $O = -AL\omega - MB\omega + RA$

RSRN

$$\begin{bmatrix} R - L\omega & -M\omega \\ -M\omega & R - L\omega \end{bmatrix} \begin{bmatrix} A \\ B \end{bmatrix} = 0$$

$$(R - L\omega)^2 - M^2\omega^2 = 0$$

$$(R - L\omega - M\omega)(R - L\omega + M\omega) = 0$$

$$\omega_1 = \frac{R}{L+M} \qquad \omega_2 = \frac{R}{L-M}$$

$$da \quad \omega = \omega_1$$

$$da \quad \omega = \omega_3$$

 $\frac{MR}{L+M} - \frac{MR}{L+M} = 0$ $\frac{MR}{L+M} \frac{MR}{L+M} = 0$ $\frac{MR}{L+M} \frac{MR}{L+M} = 0$ $\frac{MR}{L+M} \frac{MR}{L+M} = 0$

0 = RB - LBW -LAW

$$A_{1} = -\beta_{1}$$

$$ORN$$

$$T_{1} = \frac{\varepsilon}{R} + A_{1}e^{-\omega_{1}t} + A_{2}e^{-\omega_{2}t}$$

$$T_{2} = -A_{1}e^{-\omega_{1}t} + A_{2}e^{-\omega_{2}t}$$

$$I_{1}(0) = 0 = A_{1} = A_{1} = \frac{\xi}{2R}$$

$$I_{2}(0) = 0$$

$$I_{3} = \frac{\xi}{R} \left(1 - \frac{1}{2} e^{-\omega_{1}t} - \frac{1}{2} e^{-\omega_{2}t} \right)$$

$$I_{2} = \frac{\xi}{2R} \left(-e^{-\omega_{1}t} + e^{-\omega_{2}t} \right)$$

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