

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, $f(t) = K_1 (x_1 - x_2) \quad \dots (1)$

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

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.

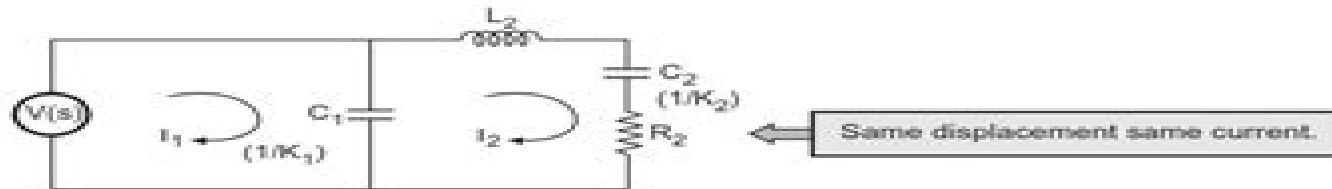


Fig. 4.1

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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**Noman Jafri, Imran Shafi, Uzair Khaleeq
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1. Understanding the eBook Solution Manual Chapter 6 Control System Engineering
 - The Rise of Digital Reading Solution Manual Chapter 6 Control System Engineering
 - Advantages of eBooks Over Traditional Books
2. Identifying Solution Manual Chapter 6 Control System Engineering
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Solution Manual Chapter 6 Control System Engineering
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solution Manual Chapter 6 Control System Engineering
 - Personalized Recommendations
 - Solution Manual Chapter 6 Control System Engineering User Reviews and Ratings
 - Solution Manual Chapter 6 Control System Engineering and Bestseller Lists

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7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Solution Manual Chapter 6 Control System Engineering
 - Highlighting and Note-Taking Solution Manual Chapter 6 Control System Engineering
 - Interactive Elements Solution Manual Chapter 6 Control System Engineering
8. Staying Engaged with Solution Manual Chapter 6 Control System Engineering
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solution Manual Chapter 6 Control System Engineering
9. Balancing eBooks and Physical Books Solution Manual Chapter 6 Control System Engineering
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solution Manual Chapter 6 Control System Engineering
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Solution Manual Chapter 6 Control System Engineering
 - Setting Reading Goals Solution Manual Chapter 6 Control System Engineering
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Solution Manual Chapter 6 Control System Engineering
 - Fact-Checking eBook Content of Solution Manual Chapter 6 Control System Engineering
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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