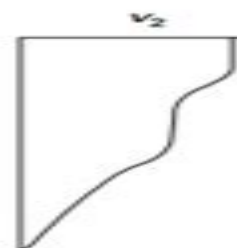
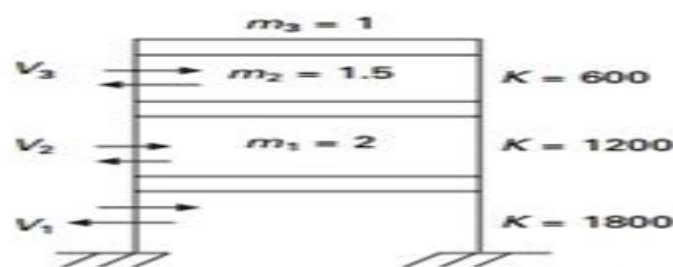


$$\begin{Bmatrix} V_3 \\ v_2 \end{Bmatrix} = \begin{bmatrix} 1 & m_3 p \\ -\frac{1}{k_3} & 1 - \frac{m_3 p}{k_3} \end{bmatrix} \begin{Bmatrix} V_4=0 \\ v_3 \end{Bmatrix} = [a] \begin{Bmatrix} 0 \\ 1 \end{Bmatrix} \quad 11.45$$

$$\begin{Bmatrix} V_2 \\ v_1 \end{Bmatrix} = \begin{bmatrix} 1 & m_2 p \\ -\frac{1}{k_2} & 1 - \frac{m_2 p}{k_2} \end{bmatrix} \begin{Bmatrix} V_3 \\ v_2 \end{Bmatrix} = [b] \begin{Bmatrix} V_3 \\ v_2 \end{Bmatrix} = [b][a] \begin{Bmatrix} 0 \\ 1 \end{Bmatrix} \quad 11.46$$



11.3 Three storeyed shear frame.

$$\begin{Bmatrix} V_1 \\ v_0 \end{Bmatrix} = \begin{bmatrix} 1 & m_1 p \\ -\frac{1}{k_1} & 1 - \frac{m_1 p}{k_1} \end{bmatrix} \begin{Bmatrix} V_2 \\ v_1 \end{Bmatrix} = [c] \begin{Bmatrix} V_2 \\ v_1 \end{Bmatrix} = [c][b][a] \begin{Bmatrix} 0 \\ 1 \end{Bmatrix}$$

$$(c)[b][a] \begin{Bmatrix} 0 \\ 1 \end{Bmatrix} = \{d\} = \begin{Bmatrix} V_1 \\ v_0 \end{Bmatrix} \quad 11.47$$

$$d(2, 1.5, 1, 1800, 1200, 600, 211) = \begin{Bmatrix} 543.43 \\ -4504 \times 10^{-4} \end{Bmatrix} \quad 11.48$$

For, $p = 211$, $v_0 = 0$. Hence

$$\omega_n = \sqrt{211} = 14.520 \text{ rad/s} \quad 11.49$$

One we get natural frequency one can also get the mode shape as shown below.

$$\begin{Bmatrix} V_3 \\ v_2 \end{Bmatrix} = \begin{bmatrix} 1 & 211 \\ -\frac{1}{600} & 1 - \frac{211}{600} \end{bmatrix} \begin{Bmatrix} V_4=0 \\ v_3=1 \end{Bmatrix} = \begin{Bmatrix} 211 \\ 0.648 \end{Bmatrix} \quad 11.50$$

$$\begin{Bmatrix} V_2 \\ v_1 \end{Bmatrix} = \begin{bmatrix} 1 & 316.5 \\ -\frac{1}{1200} & 1 - \frac{316.5}{1200} \end{bmatrix} \begin{Bmatrix} V_3=211 \\ v_2=0.648 \end{Bmatrix} = \begin{Bmatrix} 416.198 \\ 0.3015 \end{Bmatrix} \quad 11.51$$

$$\begin{Bmatrix} V_1 \\ v_0 \end{Bmatrix} = \begin{bmatrix} 1 & 422 \\ -\frac{1}{1800} & 1 - \frac{422}{1800} \end{bmatrix} \begin{Bmatrix} V_2=416.198 \\ v_1=0.3015 \end{Bmatrix} = \begin{Bmatrix} 543.43 \\ 0 \end{Bmatrix} \quad 11.52$$

Hence mode shape is given by

$$\{\psi\} = \begin{Bmatrix} 0.3015 \\ 0.648 \\ 1 \end{Bmatrix} \quad 11.53$$

The base shear = 543.43 N.

Formulas For Natural Frequency And Mode Shape

Dario Di Maio



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Table of Contents Formulas For Natural Frequency And Mode Shape

1. Understanding the eBook Formulas For Natural Frequency And Mode Shape
 - The Rise of Digital Reading Formulas For Natural Frequency And Mode Shape
 - Advantages of eBooks Over Traditional Books
2. Identifying Formulas For Natural Frequency And Mode Shape
 - 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 Formulas For Natural Frequency And Mode Shape
 - User-Friendly Interface
4. Exploring eBook Recommendations from Formulas For Natural Frequency And Mode Shape
 - Personalized Recommendations
 - Formulas For Natural Frequency And Mode Shape User Reviews and Ratings
 - Formulas For Natural Frequency And Mode Shape and Bestseller Lists
5. Accessing Formulas For Natural Frequency And Mode Shape Free and Paid eBooks

- Formulas For Natural Frequency And Mode Shape Public Domain eBooks
- Formulas For Natural Frequency And Mode Shape eBook Subscription Services
- Formulas For Natural Frequency And Mode Shape Budget-Friendly Options
- 6. Navigating Formulas For Natural Frequency And Mode Shape eBook Formats
 - ePub, PDF, MOBI, and More
 - Formulas For Natural Frequency And Mode Shape Compatibility with Devices
 - Formulas For Natural Frequency And Mode Shape Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Formulas For Natural Frequency And Mode Shape
 - Highlighting and Note-Taking Formulas For Natural Frequency And Mode Shape
 - Interactive Elements Formulas For Natural Frequency And Mode Shape
- 8. Staying Engaged with Formulas For Natural Frequency And Mode Shape
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Formulas For Natural Frequency And Mode Shape
- 9. Balancing eBooks and Physical Books Formulas For Natural Frequency And Mode Shape
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Formulas For Natural Frequency And Mode Shape
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Formulas For Natural Frequency And Mode Shape
 - Setting Reading Goals Formulas For Natural Frequency And Mode Shape
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Formulas For Natural Frequency And Mode Shape
 - Fact-Checking eBook Content of Formulas For Natural Frequency And Mode Shape
 - 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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