$$\begin{cases}
V_3 \\ v_2
\end{cases} = \begin{bmatrix}
1 & m_3 p \\ -\frac{1}{k_3} & 1 - \frac{m_3 p}{k_3}
\end{bmatrix} \begin{cases}
V_{4=0} \\ v_3
\end{cases} = [a] \begin{cases}
0 \\ 1
\end{cases}$$

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

$$I1.46$$

$$V_3 = 1$$

$$V_4 = m_2 = 1.5$$

$$V_2 = m_1 = 2$$

$$V_1 = m_2 = 1.5$$

$$K = 600$$

$$K = 1200$$

$$K = 1800$$

11.3 Three storeyed shear frame.

$$\begin{cases} V_1 \\ v_0 \end{cases} = \begin{bmatrix} 1 & m_1 p \\ -\frac{1}{k_1} & 1 - \frac{m_1 p}{k_1} \end{bmatrix} \begin{cases} V_2 \\ v_1 \end{cases} = [c] \begin{cases} V_2 \\ N_1 \end{cases} = [c][b][a] \begin{cases} 0 \\ 1 \end{cases}$$

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

$$11.47$$

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

$$11.48$$

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

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

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

Hence mode shape is given by

$$\{\psi\} = \begin{cases} 0.3015 \\ 0.648 \end{cases}$$
 11.53

The base shear = $543.43 \,\mathrm{N}$.

Formulas For Natural Frequency And Mode Shape

Shrikant Bhave

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