

Kr=R-R° Ke=ATKeA

Elements 9

$$V^{e} = A^{T} \stackrel{e}{k} A = \begin{bmatrix} nei \\ 23 \end{bmatrix} O - \frac{bei}{L} - \frac{172E^{i}}{L^{3}} O = \frac{bei}{L^{2}} O = \frac{172E^{i}}{L^{3}} O = \frac{bei}{L^{2}} O = \frac{172E^{i}}{L^{3}} O = \frac{bei}{L^{2}} O = \frac{bei}{L^{2}$$

Elenents 2

$$\mathcal{K}^{e} = I \, \mathcal{K}^{e} I = \mathcal{K}^{e} = \begin{bmatrix} EA \\ 1/5 1 \end{bmatrix} 0 0 - \frac{EA}{1/51} 0 0$$

$$0 \quad \frac{12EI}{(1/5)L^{3}} \frac{6EI}{(1/5L)^{2}} 0 - \frac{12EI}{(1/5L)^{2}} \frac{6EI}{(1/5L)^{2}}$$

$$0 \quad \frac{6EI}{(1/5)L^{3}} \frac{4EI}{(1/5L)} 0 - \frac{6EI}{(1/5L)^{2}} \frac{2EI}{(1/5L)^{2}}$$

$$-\frac{EA}{1/51} 0 0 \frac{EA}{1/51} 0 0$$

$$0 \quad \frac{12EI}{(1/5L)^{2}} \frac{6EI}{(1/5L)^{2}} 0 \frac{12EI}{(1/5L)^{2}} \frac{6EI}{(1/5L)^{2}}$$

$$0 \quad \frac{6EI}{(1/5L)^{2}} \frac{2EI}{1/5L} 0 - \frac{6EI}{(1/5L)^{2}} \frac{4EI}{1/5L}$$





