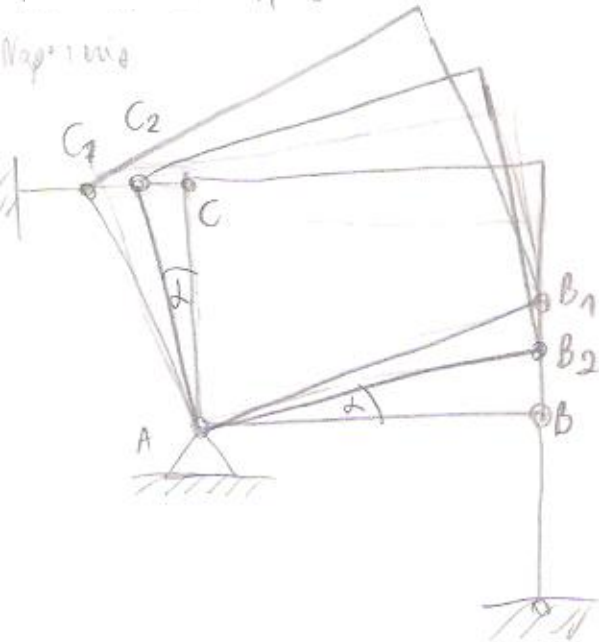


$$\sigma = \frac{P}{A} \leq k_r$$

$$\sum F_{ix} = 0 \quad R_{Ax} + S_1 = 0$$

$$\sum F_{iy} = 0 \quad R_{Ay} + S_2 = 0$$

$$\sum T_A = 0 \quad S_1 \cdot L - S_2 \cdot 2L = 0 \rightarrow S_1 = 2S_2 \rightarrow S_2 = \frac{1}{2} S_1$$



$$\Delta l_1 = \overline{CC_2} \quad \Delta l_1 = \frac{S_1 \cdot L}{E \cdot A}$$

$$\Delta l_2 = \overline{B_1 B_2} \quad \Delta l_2 = \frac{S_2 \cdot L}{E \cdot A}$$

$$\Delta l_4 = \overline{B B_1} \quad \Delta l_4 = \alpha \cdot L \cdot \Delta t$$

$$\frac{\Delta l_1}{L} = \frac{\Delta l_4 - \Delta l_2}{2L} \quad / \cdot 2L$$

$$2\Delta l_1 = \Delta l_4 - \Delta l_2$$

$$2 \cdot \frac{S_1 \cdot L}{E \cdot A} = \alpha \cdot L \cdot \Delta t - \frac{S_1 \cdot L}{2 \cdot E \cdot A} \quad / : L$$

$$2 \cdot \frac{S_1}{E \cdot A} = \alpha \cdot \Delta t - \frac{1}{2} \frac{S_1}{E \cdot A}$$

$$2 \cdot \frac{1}{2} S_1 \cdot \frac{1}{E \cdot A} = \alpha \cdot \Delta t \quad / \cdot E \cdot A$$

$$2 \cdot \frac{1}{2} S_1 = \alpha \cdot \Delta t \cdot E \cdot A \quad / : \frac{E}{2}$$

$$S_1 = \frac{2}{5} \cdot \alpha \cdot \Delta t \cdot E \cdot A$$

$$S_2 = \frac{1}{5} \cdot \alpha \cdot \Delta t \cdot E \cdot A$$

$$\Delta l_1 = \frac{S_1 \cdot L}{E \cdot A}$$

$$\Delta l_1 = \frac{2}{5} \cdot \alpha \cdot \Delta t \cdot E \cdot A \cdot \frac{1}{E \cdot A}$$

$$\Delta l_1 = \frac{2}{5} \cdot \alpha \cdot \Delta t \quad \sigma = \frac{S_1}{A}$$

$$\sigma_1 = \frac{2}{5} \cdot \alpha \cdot \Delta t \cdot E$$

$$\sigma_2 = \frac{1}{5} \cdot \alpha \cdot \Delta t \cdot E$$