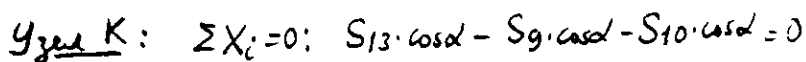


$$S_6 = \frac{S_3}{\sin \alpha} + S_2 + S_5 = \frac{S_3}{\sin \alpha} + S_2 + (S_2 - S_6) = \frac{S_3}{\sin \alpha} + 2S_2 - S_6$$

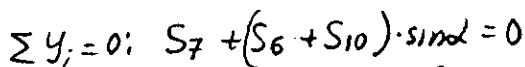
$$S_5 = 11,25 - 7,917 = 3,333 \text{ KH}$$



$$\sum y_i = 0: S_{11} + S_9 \cdot \sin \alpha + S_{13} \cdot \sin \alpha - S_{10} \cdot \sin \alpha = 0$$

$$S_{10} = S_{13} + \frac{S_{11}}{2 \cdot \sin \alpha} = 5,417 + 0 = 5,417 \text{ kH}$$

$$S_9 = 5147 - 5417 = 0$$



$$S_7 = -(S_6 + S_{10}) \cdot \sin \alpha = -(7,917 + 5,417) \cdot 96 = -8 \times 4$$

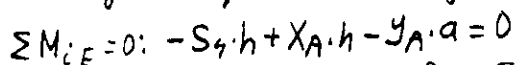
Die Hypothesen: $\sum X_i = (-S_6 + S_{10}) \cdot \omega_{SD} + P_3 = (-7,917 + 5,417) \cdot 0,8 + 2 = 0$

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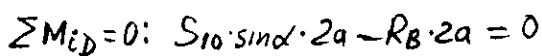
3. Метод сочленений для определения усилий в стержнях.



$$S_4 = X_A - Y_A \cdot \frac{q}{h} = 2 - 6,75 \cdot \frac{4,8}{3,6} = -7 \text{ kWh}$$

$$\sum M_{iA} = 0: -P_1 \cdot a + S_5 \cdot \sin \alpha \cdot 2a = 0$$

$$S_5 = \frac{P_1}{2.5 \text{ mV}} = \frac{4}{2.06} = 3,333 \text{ uH}$$



$$S_{10} = \frac{R_B}{\sin \alpha} = \frac{3,25}{0,6} = 5,417 \text{ kH}$$