

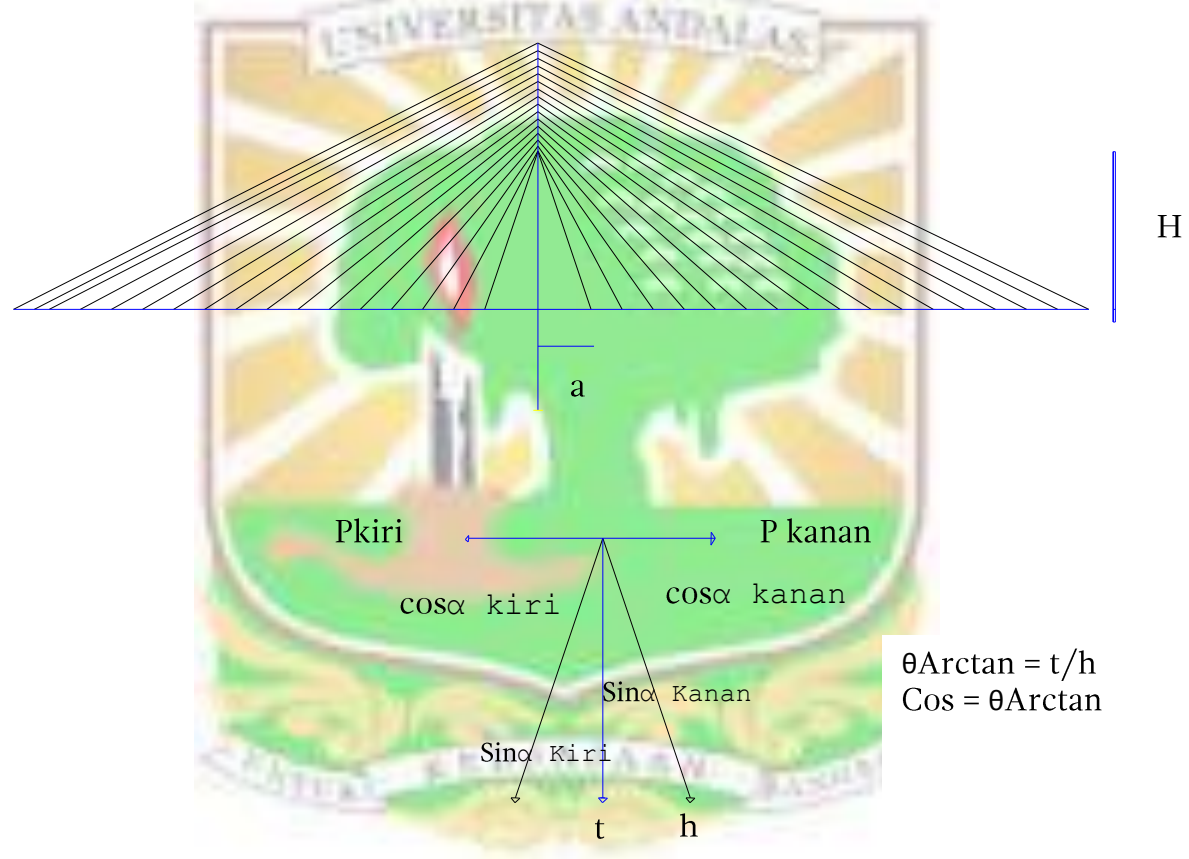
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LAMPIRAN 1

Perhitungan momen dengan pendekatan



1. Contoh titik 17

$$h = 226,6091 \text{ m}$$

$$t = 101,3 \text{ m}$$

$$\theta_{\text{Arctan}} = 101,3/226,6091$$

$$\theta_{\text{Arctan}} = 24,08$$

$$\cos = 24,08 = 0,91$$

$$W.\text{Berat total} = W.\text{kabel} + W.\text{girder longitudinal} + W.\text{girder longitudinal} + W.\text{ Beton}$$

$$W.\text{kabel} = 229,29 \text{ kN}$$

$$W.\text{girder longitudinal} = 131,52 \text{ kN}$$

$$W.\text{girder transversal} = 292,05 \text{ kN}$$

$$W.\text{ beton} = 900,65 \text{ kN}$$

$$W.\text{Berat total} = 1553,53 \text{ kN}$$

$$P_{17} = W.\text{Berat total} \times \cos$$

$$P_{17} = 1418,27558 \text{ kN}$$





Komparasi SAP 2000 dengan Manual

Frame	Momen (kNm)	Momen (kNm)	Persentasi Perbedaan %
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	Berat sendiri (SAP 2000 V14)		Berat sendiri Manual		Max	Min
	Max	Min	Max	Min		
71	77.637,71	-99.377,40	-103.165,04	79.311,9	10	10



