

Equilibrio

$$\begin{aligned} \sum F_H &= 0 \\ \sum F_V &= 0 \\ \sum M^O &= 0 \end{aligned} \quad \left. \begin{array}{l} \text{EEA} \\ \text{Ecuaciones} \\ \text{de equilibrio} \\ \text{absoluto.} \end{array} \right\}$$

$$\sum M_{S1}^{A12} = 0 \quad \& \quad \sum M_{S2}^{A12} = 0$$

$$\sum M_{S2}^{A12} = -50 \text{ kNm} - H_B \cdot 2 \text{ m} = 0 \quad \boxed{H_B = -25 \text{ kN}}$$

$$\sum F_H = -H_A - H_B + 20 = 0 \quad \boxed{H_A = 45 \text{ kN}}$$

$$\sum M_{S1}^{A12} = 50 \text{ kNm} - V_A \cdot 2 \text{ m} + H_A \cdot 2 \text{ m} = 0 \quad \boxed{V_A = 70 \text{ kN}}$$

$$\sum F_V = \underbrace{V_A}_{70} + V_B - 40 \text{ kN} = 0 \rightarrow \boxed{V_B = -30 \text{ kN}}$$

GL para 2 cuerpos $\rightarrow M+2$



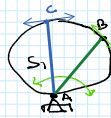
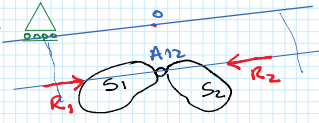
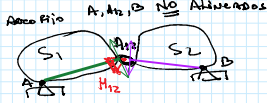
GL - Cuerpos

- ZGL - asire -

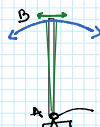
HGL - cadenas

2 cuerpos.

\rightarrow Un cuerpo 2do especie 2 CV

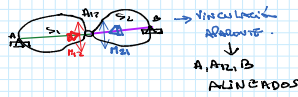


\rightarrow Momento fijo en el punto A



Téora de pequeños desplazamientos - Lincalizado como nãtica

PUNTO FIJO.



\rightarrow Vinculaci3n absoluta - A, A12, B ALINEADOS