



Nombre del Alumno: Elías Javier
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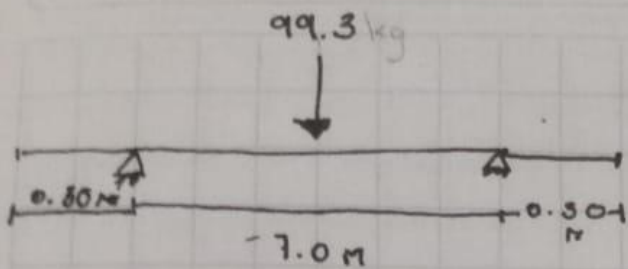
Nombre del profesor: Arq. Pedro
Alberto García López

Nombre del trabajo: Modelo 3d de
cancha Nicalocok

Materia: Resistencia de materiales

Grado: 4to Cuatrimestre.

Carrera: Arquitectura.



$$R_A = R_B = \frac{F}{2}$$

$$R_A = R_B = \frac{99.3}{2} = 49.65$$

Momentos

$$M = \frac{FL}{4} = \frac{99.3 (7.0 \text{ m})}{4} = 173.775$$

$$I_x = \frac{2.5 \text{ cm} (8.5)^3}{12} = 127.94270833333$$

$$F = \frac{Fl^3}{48EI} = \frac{99.3 \text{ kg} (7.0 \text{ m})^3}{48 (300,000) 127.9427083333}$$

$$F = \frac{34,059.9}{1,842,374,999.9999}$$

$$= 0.00018486 \dots$$

$$\theta_A = \theta_B = \frac{Fl^2}{18EI} = \theta_A = \theta_B = \frac{99.3 \text{ kg} (7.0 \text{ m})^2}{16 (300,000) 127.9427083333}$$

$$= \frac{4865.7}{614,121,999.99984}$$

$$= 0.000791301 \dots$$