Iber Emanuel Vázquez ArgÜello

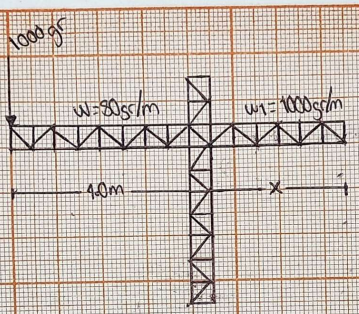
Arq. Pedro Alberto García

Momentos de inercia de una superficie

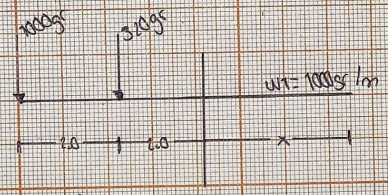
Estática para la arquitectura

Tercer Cuatrimestre

Comitán de Domínguez Chiapas a 30 de jul. de 23

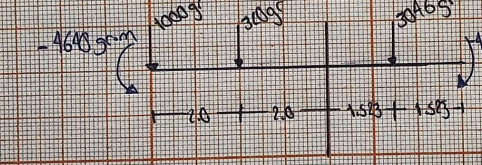


$w \cdot L = 80 gr/m (4.0m)$
$= 320 gr$
$DP = 4.0m/2 = 2.0 m$



$EFy = (-320 gr \cdot 2.0m) = 640 gr \cdot m \quad M_1$
$(-1000 gr \cdot 1.0m) = 1000 gr \cdot m \quad M_2$
$1640 gr \cdot m$

$$D_2 = \sqrt{\frac{2M}{w}} = \frac{\sqrt{2(1640 gr \cdot m)}}{1000 gr} = 3.046 m$$



$w \cdot L = 1000 gr/m (3.046m)$
$= 3046 gr$
$DP = 3.046m/2 = 1.523$

$= 3046 gr \cdot 1.523 m$
$= 4639.058 gr \cdot m$