

ESTRUCTURAS I

CURSO ESTRUCTURAS I

CLASE 8 : MARCOS ISOSTATICOS ENTRAMADOS - CASOS ESPECIALES

■ Profesor: Jing Chang Lou

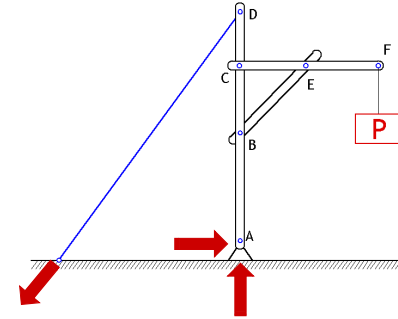
MARCOS ISOSTATICOS ENTRAMADOS Y MAQUINAS

ENTRAMADOS

Son estructuras normalmente fijas y estables.

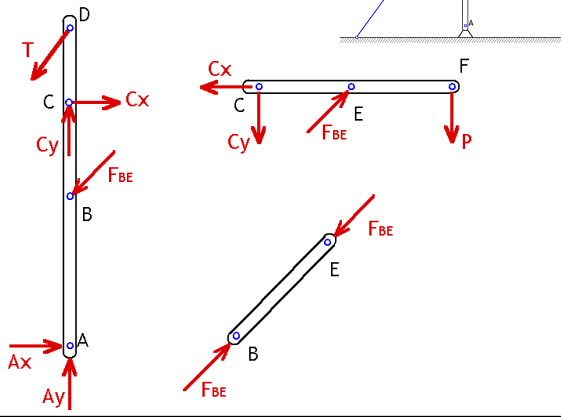
Están diseñadas para soportar cargas.

Siempre contiene un elemento sometido a varias fuerzas.



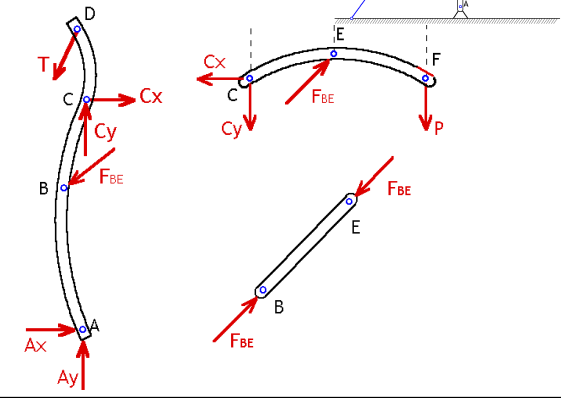
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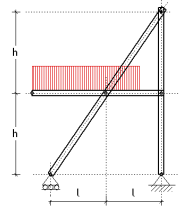
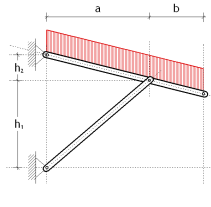
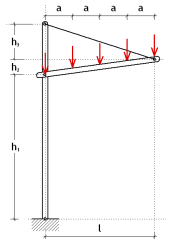


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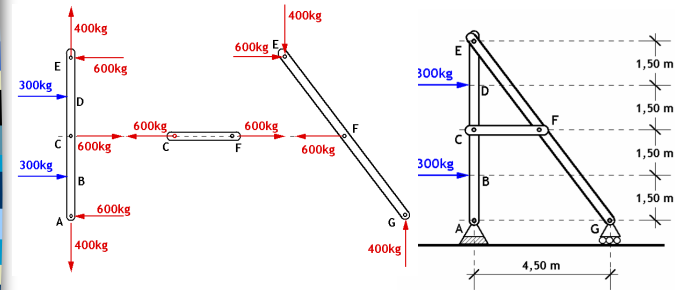
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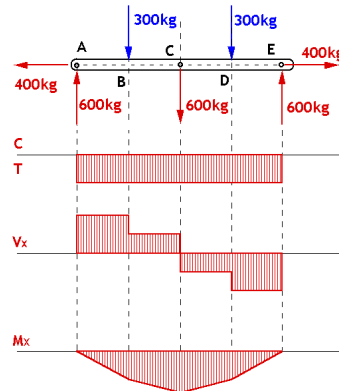
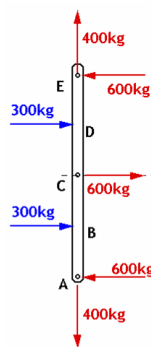


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ENTRAMADOS

ANALISIS INTERNO
BARRA AE

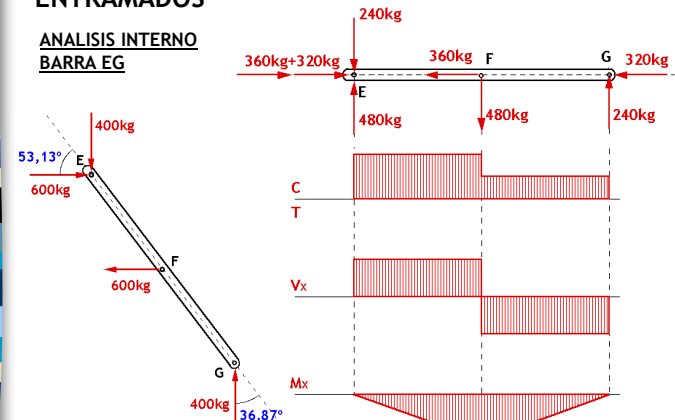


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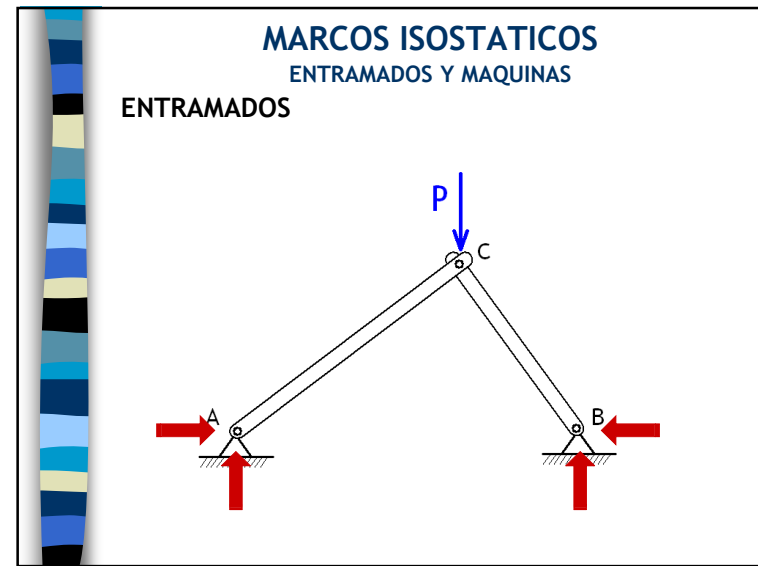
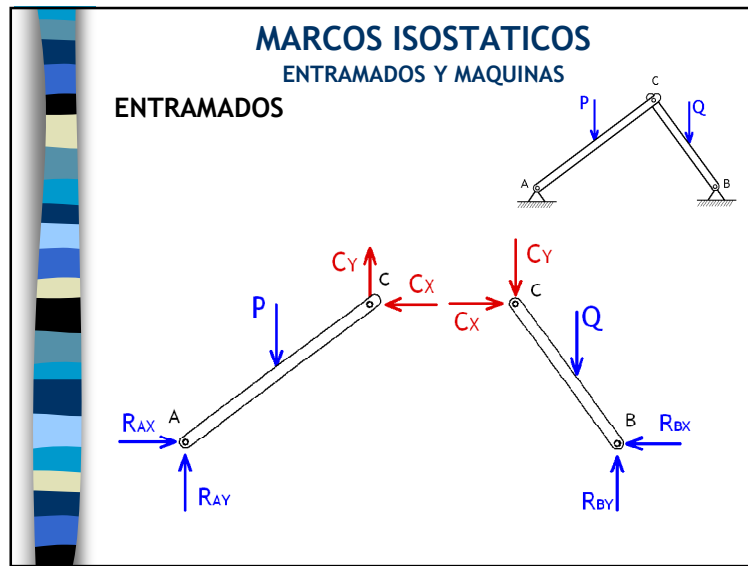
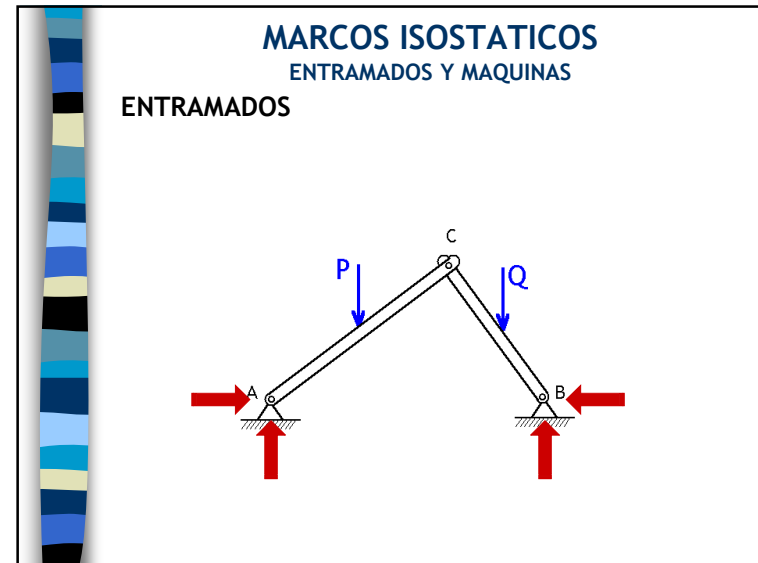
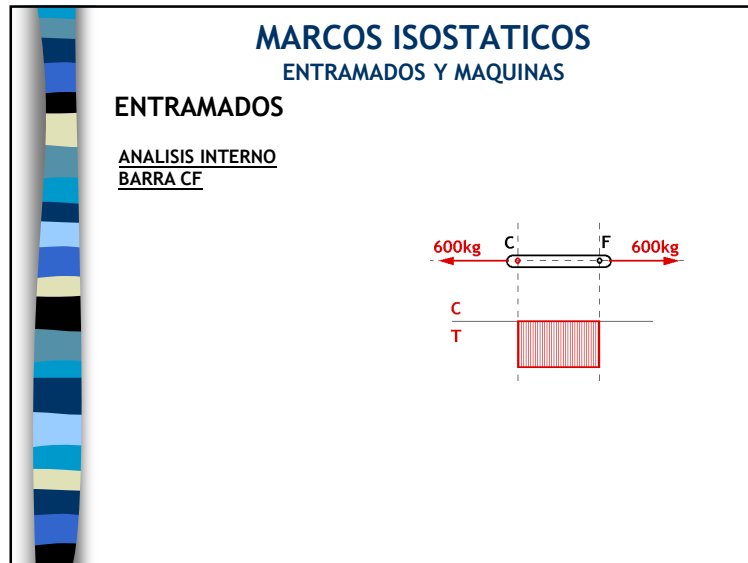
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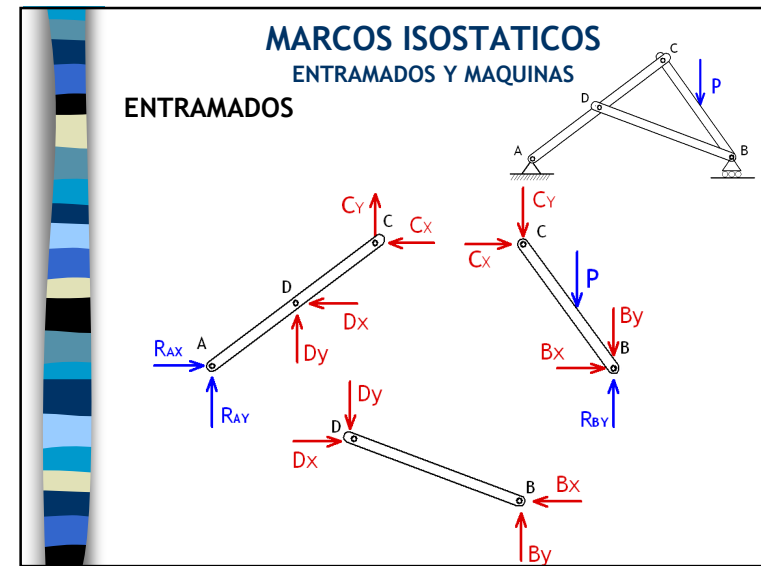
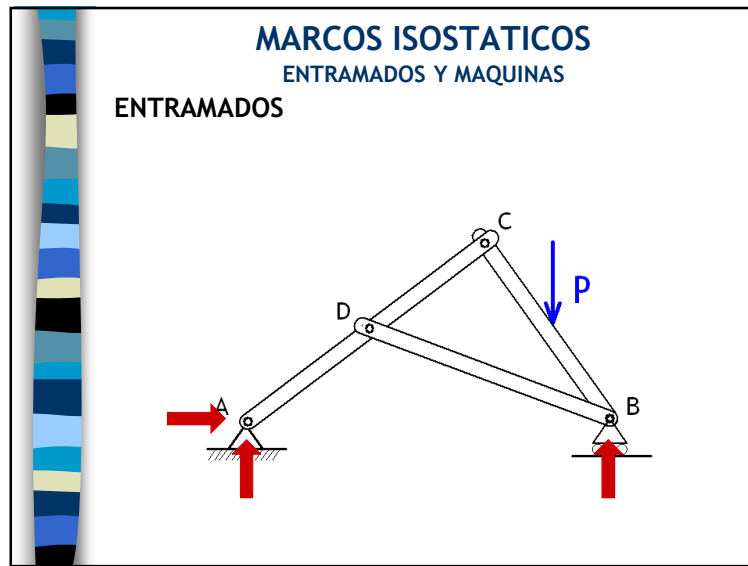
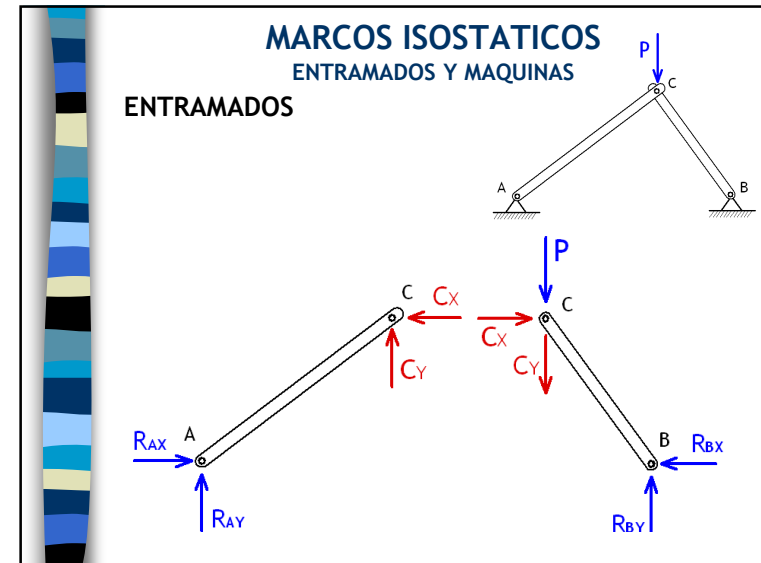
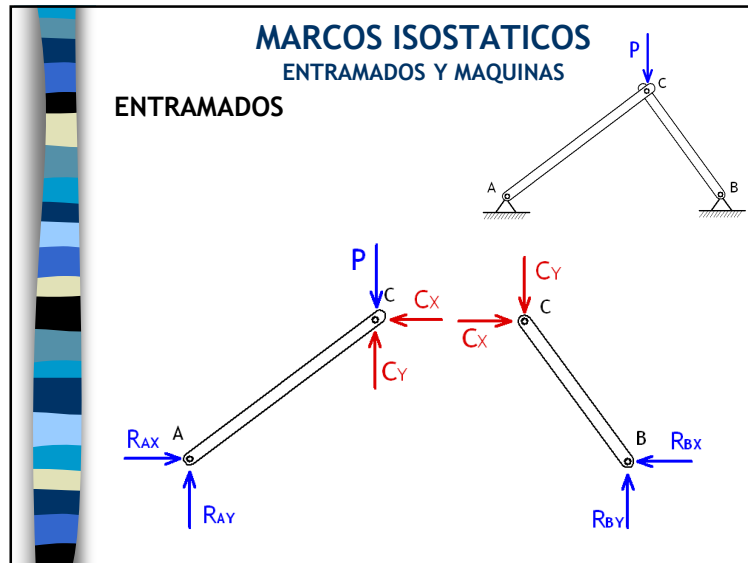
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BARRA EG



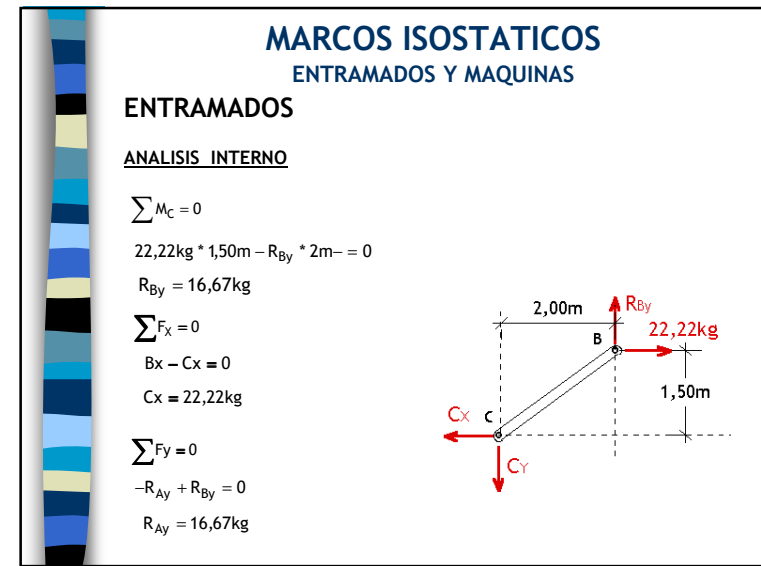
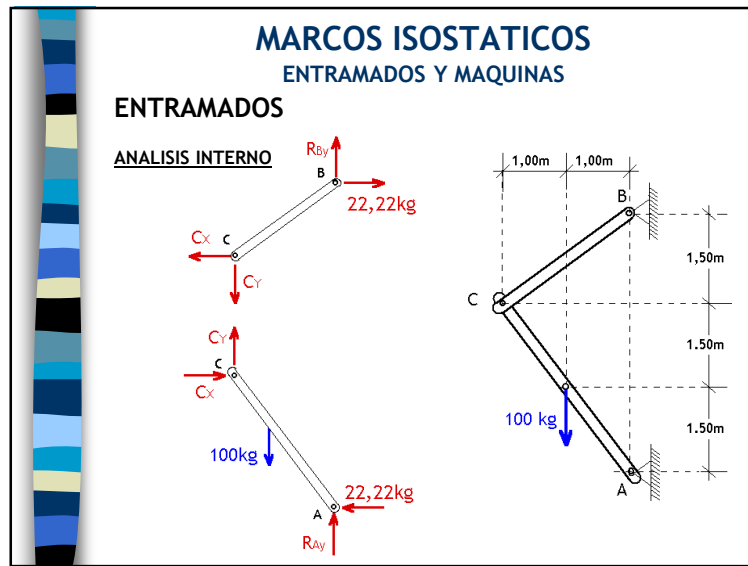
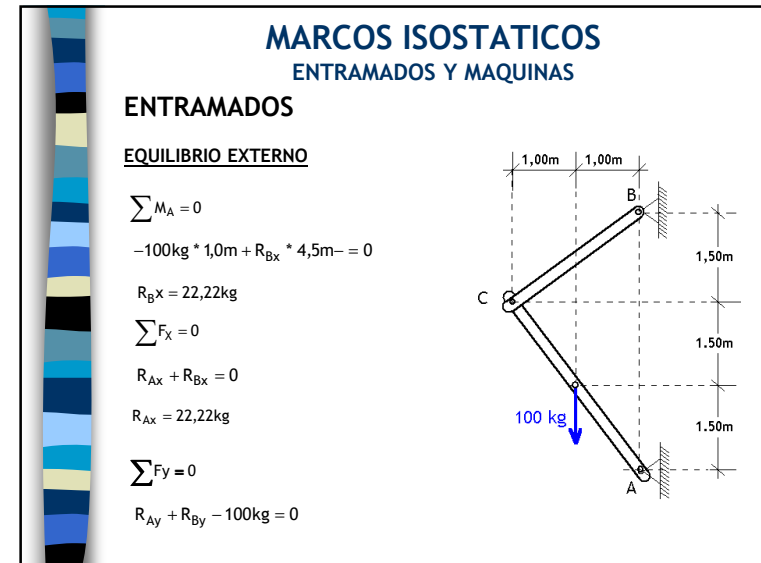
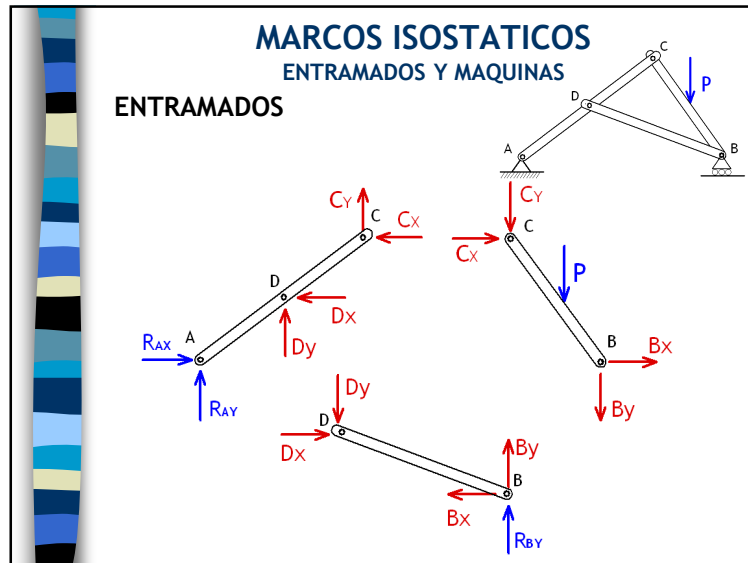
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$$\sum F_x = 0$$

$$22,22\text{kg} - C_x = 0$$

$$C_x = 22,22\text{kg}$$

$$\sum F_y = 0$$

$$R_{Ay} + C_y - 100\text{kg} = 0$$

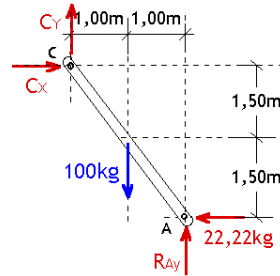
$$R_{Ay} = 83,33\text{kg}$$

COMPROBACION

$$\sum M_C = 0$$

$$22,22\text{kg} \cdot 3,00\text{m} - 83,33 \cdot 2,00\text{m} + 100\text{kg} \cdot 1,00\text{m} = 0$$

$$66,66 - 166,66 + 100 = 0\text{kg}$$

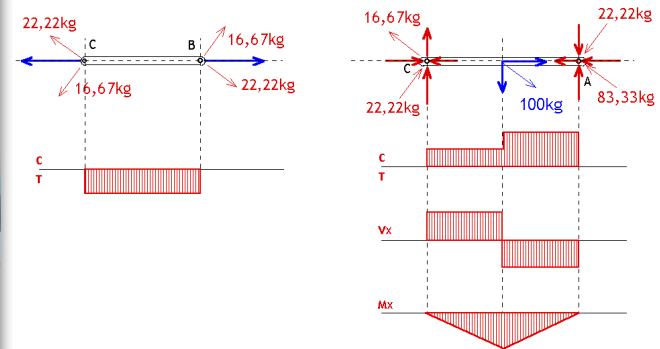


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ANALISIS INTERNO



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