

MECHANICS:

THE SOLUTION STARTS BY CONSIDERING THE EQUILIBRIUM OF DECE

$$\Im F_x = 0 = 2P - O_x - C_x \implies O_x + C_x = 2 \cdot P$$

(1)

(2)

3

THESE RESULTS ARE NOW USED TO DETERMINE THE REACTIONS IN ADBC.

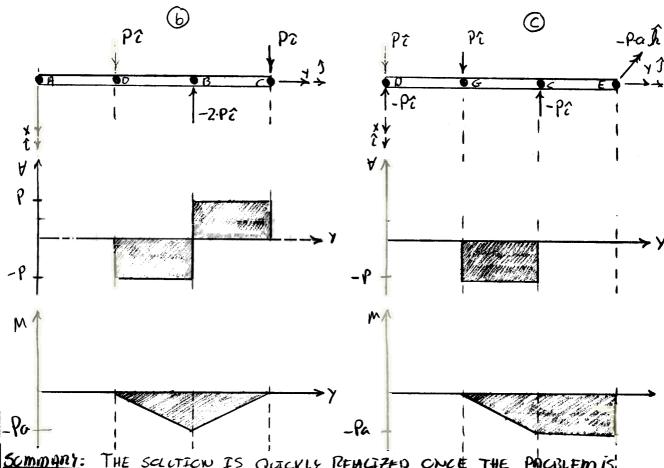
$$\Sigma F_x = \emptyset = A_x + P + B_x + P = \emptyset \implies A_x + B_x = -2P$$

(4)

$$\frac{2M_{z_{\alpha \uparrow A}} = 0 = -R\alpha}{5 + 2} - 2 \cdot \alpha \cdot \beta_{x} - 3 \cdot \alpha \cdot \beta_{z} \Rightarrow \frac{\beta_{x} = -2\beta}{4x = 0}$$

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NOW HE SHEAR AND BENDEWS MOMENT OTAGRAMS CAN BE DRIAW



SCHMANT: THE SOLUTION IS QUICKLY RENCIZED ONCE THE PACBLEM IS!
DECOMPOSED INTO TWO BEAMS. INTERNAL REACTIONS ARE EQUAL BUT OPPOSITE.



