

# Download File PDF Chapter 9 Solutions Statics

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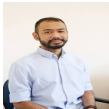
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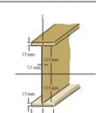
#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

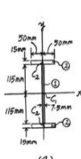
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19-42. Determine the moment of inertia of the beam's cross-sectional area about the  $y$  axis.



Composite Parts: The composite cross-sectional area of the beam can be subdivided into two similar segments (2) and one segment (1) as shown in Fig. a. The location of the centroid of each segment is also indicated.

Moment of Inertia: Since the  $y$  axis passes through the centroid of each segment,

$$I_y = \sum I_{y_c}$$
$$= \sum \left[ \frac{1}{12} (b_i h_i^3) \right] + \sum (A_i d_i^2)$$
$$= 2.93 \times 10^6 \text{ mm}^4 \quad \text{Ans.}$$


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