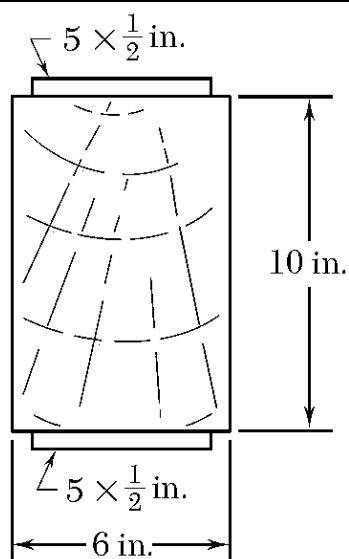


1) GIVEN: The composite beam shown.

	Wood	Steel
Modulus of elasticity	2×10^6 psi	30×10^6 psi
Allowable stress	2000 psi	22 ksi

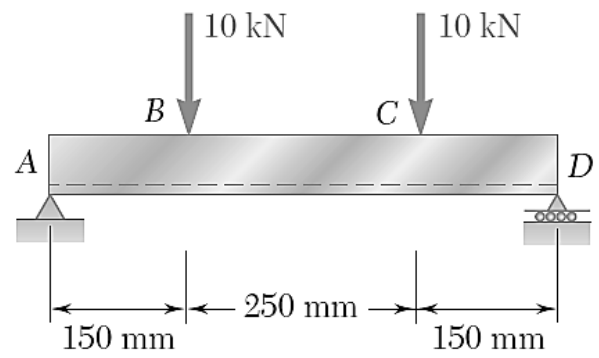
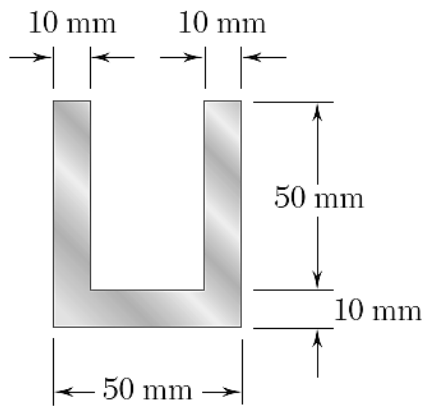


REQ'D: A) Transformation factor, n (draw transformed section)

B) Locate \bar{y} and calculate I_x about the NA for the transformed section

C) Maximum allowable bending moment

2) GIVEN: Two vertical forces are applied to a beam of the cross section shown. (B11.97)



REQ'D: A) V_{\max} and M_{\max}

B) Centroid location, \bar{y}

C) Moment of inertia about neutral axis, I_{NA}

D) Maximum compressive and tensile bending stress