

**\*19-26.** Determine the resultant internal loadings acting on the beam section through point D. Assume the reactions at the supports A and B are correct.



Referring to the FBD of the entire beam, Fig. a,

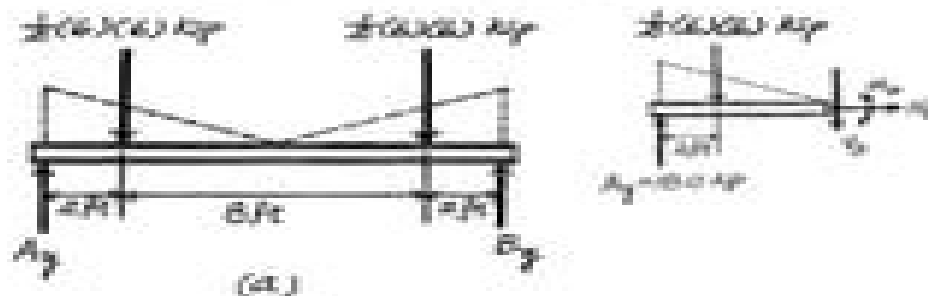
$$\sum C = \sum M_A = 0; \quad \frac{1}{2}(4)(6)(2) + \frac{1}{2}(4)(6)(10) - A_B(12) = 0; \quad A_B = 36.0 \text{ kN}$$

Referring to the FBD of the segment Fig. b,

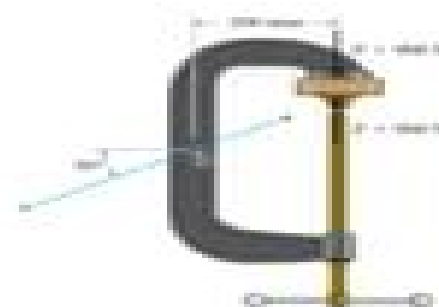
$$\sum F_x = 0; \quad N_D = 0 \quad \text{Ans.}$$

$$\sum F_y = 0; \quad 18.0 + \frac{1}{2}(4)(4) - V_D = 0; \quad V_D = 26.0 \text{ kN} \quad \text{Ans.}$$

$$\sum C = \sum M_D = 0; \quad M_D + 18.0(2) = 0; \quad M_D = -36.0 \text{ kN}\cdot\text{m} \quad \text{Ans.}$$



**\*19-27.** The largest steel clamp weighs a total of  $P = 100 \text{ N}$  on the wooden block. Determine the resultant internal loadings acting on section a-a passing through point A.



**Internal Loadings:** Referring to the free-body diagram of the section of the clamp shown in Fig. a,

$$\sum F_x = 0; \quad 100 \cos 30^\circ - N_{a-a} = 0; \quad N_{a-a} = 77 \text{ N} \quad \text{Ans.}$$

$$\sum F_y = 0; \quad V_{a-a} - 100 \sin 30^\circ = 0; \quad V_{a-a} = 45 \text{ N} \quad \text{Ans.}$$

$$\sum C = \sum M_a = 0; \quad 100 \sin(2) - M_{a-a} = 0; \quad M_{a-a} = 100 \text{ N}\cdot\text{m} \quad \text{Ans.}$$



# Mechanics Of Materials Solutions Slideshow

**Bichara B. Muvdi, Souhail Elhouar**



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mechanics of materials in mechanical civil and aerospace engineering engineering mechanics and general engineering curricula It provides a review of statics covering the topics needed to begin the study of mechanics of materials including free body diagrams equilibrium trusses frames centroids and distributed loads It presents the foundations and applications of mechanics of materials with emphasis on visual analysis using sequences of figures to explain concepts and giving detailed explanations of the proper use of free body diagrams The Cauchy tetrahedron argument is included which allows determination of the normal and shear stresses on an arbitrary plane for a general state of stress An optional chapter discusses failure and modern fracture theory including stress intensity factors and crack growth Thoroughly classroom tested and enhanced by student and instructor feedback the book adopts a uniform and systematic approach to problem solving through its strategy solution and discussion format in examples Motivating applications from the various engineering fields as well as end of chapter problems are presented throughout the book

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Mechanics of Materials Daryl L. Logan, 1991

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