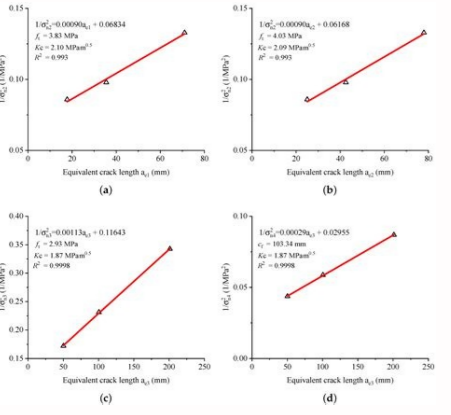
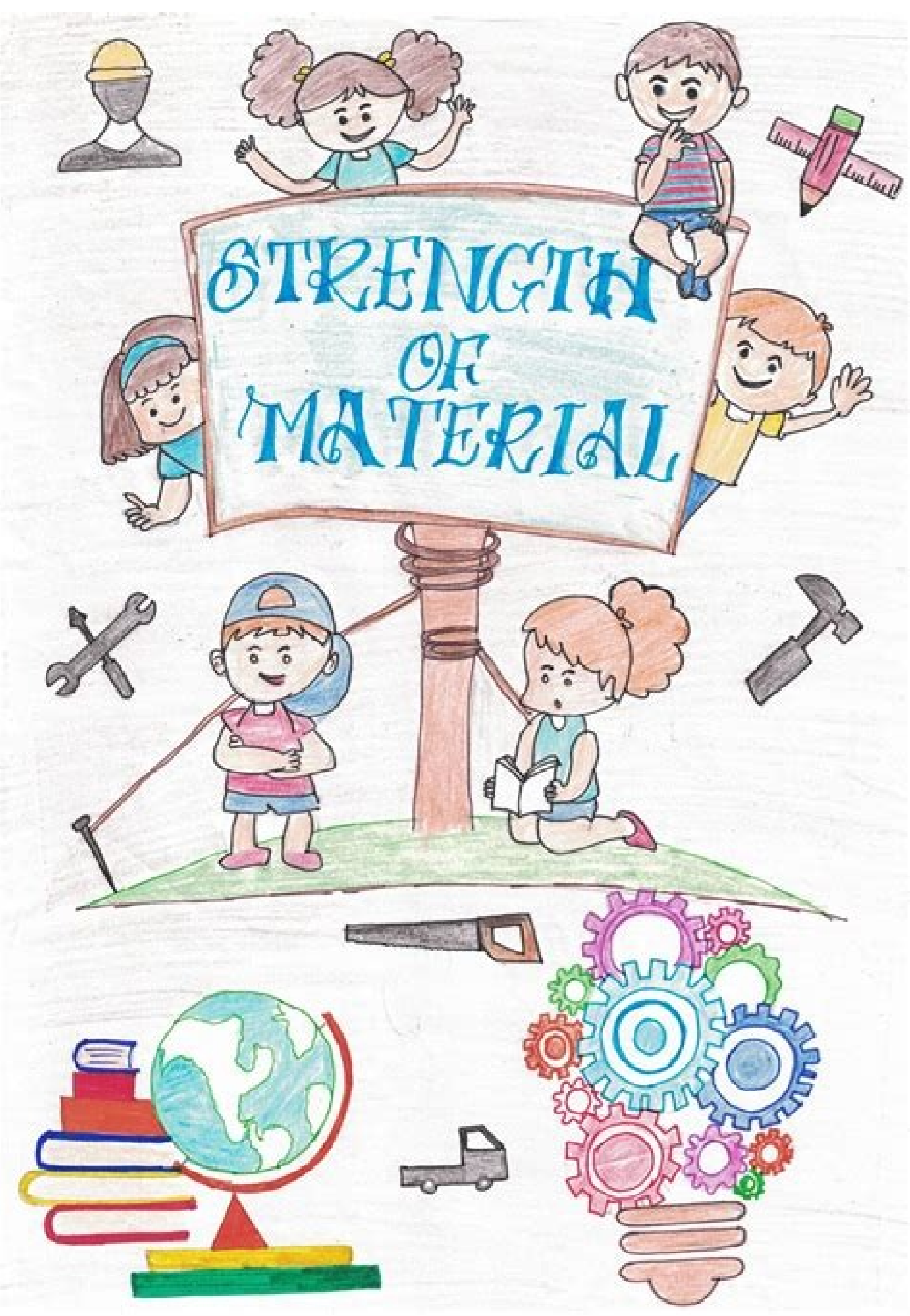


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8-49.
Solve Prob. 8-48 for point B.

SOLUTION

Internal Loadings: Consider the equilibrium of the left segment of the rod being sectioned, Fig. a.

$$\sum F_x = 0; N_x - 1200 = 0 \quad N_x = 1200 \text{ N}$$

$$\sum F_y = 0; V_x - 800\left(\frac{1}{2}\right) = 0 \quad V_x = 400 \text{ N}$$

$$\sum F_z = 0; V_z + 800\left(\frac{1}{2}\right) = 0 \quad V_z = -400 \text{ N}$$

$$\sum M_x = 0; T_x = 0$$

$$\sum M_y = 0; M_y + 800\left(\frac{1}{2}\right)(0.2) = 0 \quad M_y = -120 \text{ N}\cdot\text{m}$$

$$\sum M_z = 0; M_z + 800\left(\frac{1}{2}\right)(0.2) = 0 \quad M_z = -96 \text{ N}\cdot\text{m}$$

Section Properties: For the circular cross section, Fig. b.

$$A = \pi r^2 = \pi(0.02)^2 = 0.4(10^{-3}) \pi \text{ m}^2$$

$$I_x = I_y = \frac{\pi}{4} r^4 = \frac{\pi}{4}(0.02)^4 = 40.0(10^{-9}) \pi \text{ m}^4$$

$$J = \frac{\pi}{2} r^4 = \frac{\pi}{2}(0.02)^4 = 80.0(10^{-9}) \pi \text{ m}^4$$

$$Q_{yz} = \int y'z' dA = \frac{4(0.02)}{3\pi} \left[\frac{\pi}{2}(0.02)^2 \right] = 5.333(10^{-5}) \text{ m}^3$$

$$Q_{xz} = 0$$

Normal Stress: For the combined loading, the normal stress at point B can be determined from

$$\sigma_x = \sigma_y = \frac{N_x}{A} - \frac{M_y y}{I_x} + \frac{M_z z}{I_y}$$

$$= \frac{1200}{0.4(10^{-3})\pi} - \frac{(-120)(0)}{40.0(10^{-9})\pi} + \frac{(-96)(0.02)}{40.0(10^{-9})\pi}$$

$$= -19.42(10^6) \text{ Pa} = 19.4 \text{ MPa (C)} \quad \text{Ans.}$$

Shear Stress: Since $T_x = 0$, the shear stress in x and y directions is contributed by transverse shear stress only, which can be obtained using the shear formula, $\tau_{xy} = \frac{VQ}{I}$

$$(\tau_{xy})_B = (\tau_y) = \frac{400(5.333)(10^{-5})}{40.0(10^{-9})\pi(0.04)} = 0.509(10^6) \text{ Pa} = 0.509 \text{ MPa} \quad \text{Ans.}$$

$$(\tau_{xz})_B = (\tau_z) = 0 \quad \text{Ans.}$$

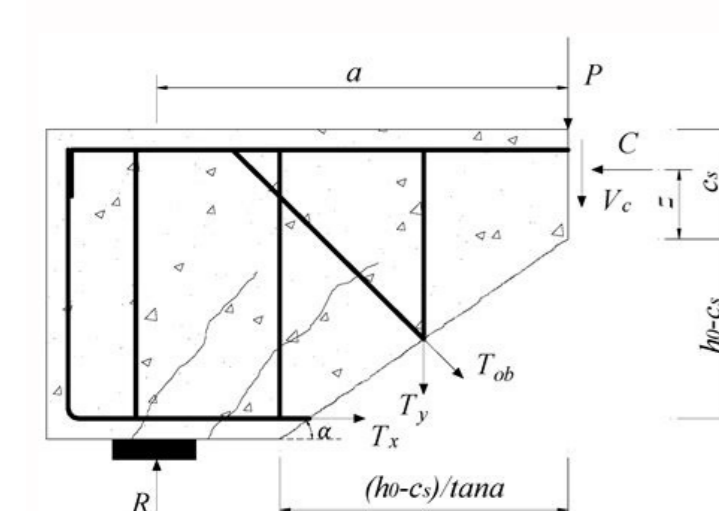
Using these results, the state of stress at point B can be represented by the volume element shown in Fig. c.

Ans.
 $\sigma_x = 19.4 \text{ MPa (C)}$
 $\tau_{xy} = 0.509 \text{ MPa}$
 $\tau_{xz} = 0$

Dimensions	FLT	MLT	Acoustic temperature	Absolute pressure	Speed of sound	To compare Com' flow by V
Acceleration	L/T ²	L/T ²	$\rho_A = 999.8 \text{ kg/m}^3$	$C = \sqrt{\gamma P / \rho}$	$C = \sqrt{\gamma P / \rho}$	300 ft/s
Area	L ²	L ²	$\rho = 1.225 \text{ kg/m}^3$	$\rho = 1.225 \text{ kg/m}^3$	$\rho = 1.225 \text{ kg/m}^3$	
Density	M/L ³	M/L ³	$\rho = 1.225 \text{ kg/m}^3$	$\rho = 1.225 \text{ kg/m}^3$	$\rho = 1.225 \text{ kg/m}^3$	
Energy	M/L ² T ²	M/L ² T ²	$\rho = 1.225 \text{ kg/m}^3$	$\rho = 1.225 \text{ kg/m}^3$	$\rho = 1.225 \text{ kg/m}^3$	
Force	M/LT ²	M/LT ²	$\rho = 1.225 \text{ kg/m}^3$	$\rho = 1.225 \text{ kg/m}^3$	$\rho = 1.225 \text{ kg/m}^3$	
Length	L	L	$\rho = 1.225 \text{ kg/m}^3$	$\rho = 1.225 \text{ kg/m}^3$	$\rho = 1.225 \text{ kg/m}^3$	
Mass	M	M	$\rho = 1.225 \text{ kg/m}^3$	$\rho = 1.225 \text{ kg/m}^3$	$\rho = 1.225 \text{ kg/m}^3$	
Time	T	T	$\rho = 1.225 \text{ kg/m}^3$	$\rho = 1.225 \text{ kg/m}^3$	$\rho = 1.225 \text{ kg/m}^3$	
Temperature	Θ	Θ	$\rho = 1.225 \text{ kg/m}^3$	$\rho = 1.225 \text{ kg/m}^3$	$\rho = 1.225 \text{ kg/m}^3$	
Velocity	L/T	L/T	$\rho = 1.225 \text{ kg/m}^3$	$\rho = 1.225 \text{ kg/m}^3$	$\rho = 1.225 \text{ kg/m}^3$	
Volume	L ³	L ³	$\rho = 1.225 \text{ kg/m}^3$	$\rho = 1.225 \text{ kg/m}^3$	$\rho = 1.225 \text{ kg/m}^3$	
Weight	M/LT ²	M/LT ²	$\rho = 1.225 \text{ kg/m}^3$	$\rho = 1.225 \text{ kg/m}^3$	$\rho = 1.225 \text{ kg/m}^3$	
Work	M/LT ²	M/LT ²	$\rho = 1.225 \text{ kg/m}^3$	$\rho = 1.225 \text{ kg/m}^3$	$\rho = 1.225 \text{ kg/m}^3$	

Properties of Air	ρ = 1.225 kg/m ³	μ = 1.81e-4 Pa·s	γ = 1.4	κ = 1.4
Dynamic Viscosity	μ = 1.81e-4 Pa·s	ν = 1.46e-4 m ² /s	γ = 1.4	κ = 1.4
Kinematic Viscosity	ν = 1.46e-4 m ² /s	γ = 1.4	κ = 1.4	κ = 1.4
Speed of Sound	c = 340.3 m/s	γ = 1.4	κ = 1.4	κ = 1.4
Prandtl Number	Pr = 0.71	γ = 1.4	κ = 1.4	κ = 1.4
Thermal Conductivity	k = 0.026 W/m·K	γ = 1.4	κ = 1.4	κ = 1.4
Specific Heat	c _p = 1005 J/kg·K	γ = 1.4	κ = 1.4	κ = 1.4
Gas Constant	R = 287 J/kg·K	γ = 1.4	κ = 1.4	κ = 1.4

Force on Plane Surface	$F = \rho g h_c A$	$F_x = \rho g h_c A x_c$	$F_y = \rho g h_c A y_c$
Center of Pressure	$h_{cp} = h_c + \frac{I_{xc}}{A h_c}$	$x_{cp} = x_c + \frac{I_{xc} x_c}{A h_c}$	$y_{cp} = y_c + \frac{I_{yc} y_c}{A h_c}$
Location of CP	$h_{cp} = h_c + \frac{I_{xc}}{A h_c}$	$x_{cp} = x_c + \frac{I_{xc} x_c}{A h_c}$	$y_{cp} = y_c + \frac{I_{yc} y_c}{A h_c}$
Force on Curved Surface	$F_x = \rho g h_c A_x$	$F_y = \rho g h_c A_y$	$F_z = \rho g h_c A_z$
Center of Pressure	$h_{cp} = h_c + \frac{I_{xc}}{A h_c}$	$x_{cp} = x_c + \frac{I_{xc} x_c}{A h_c}$	$y_{cp} = y_c + \frac{I_{yc} y_c}{A h_c}$



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93 Chapter 6 Basic mechanics Basic principles of statics All objects on earth tend to accelerate toward the Statics is the branch of mechanics that deals with the centre of the earth due to gravitational attraction; hence equilibrium of stationary bodies under the action of the force of gravitation acting on a body with the mass forces. In physics,
 deformation is the continuum mechanics transformation of a body from a reference configuration to a current configuration. A configuration is a set containing the positions of all particles of the body. A deformation can occur because of external loads, intrinsic activity (e.g. muscle contraction), body forces (such as gravity or electromagnetic forces),
 or changes in ... Mechanical engineers put energy and machines to work-from rockets, robots, and airplanes to automobiles, satellites, and renewable energy systems. In RIT's mechanical engineering BS degree you'll study math, science, physics, engineering science, and engineering systems. Wherever there is ... 36 Full PDFs related to this paper.
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 documents. Operations Management - Lecture notes, lectures 1 - 11; Mechanics of Deformable Bodies - Part1; 02C first order first degree reducible of homogeneous See full review. PF Harris . Earns Commissions . Earns Commissions . Important information. ... I diluted this vinegar by adding two parts water to one part vinegar and applied it to
 numerous weeds of different types. Rather than spray which might damage the stones, I applied it with an applicator with a pointy tip straight into the base of ... In physics, a force is an influence that can change the motion of an object. A force can cause an object with mass to change its velocity (e.g. moving from a state of rest), i.e., to
 accelerate. Force can also be described intuitively as a push or a pull. A force has both magnitude and direction, making it a vector quantity. It is measured in the SI unit of newton (N). Oct 28, 2019 - Mechanics of Materials 8th Edition Gere Solutions Manual 1. Solution 2.2-1 (a) SUM MOMENTS ABOUT A (b) so d 6 2b 5 2 b Wb kb 6 4W 5k kbd 6 2b 5
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