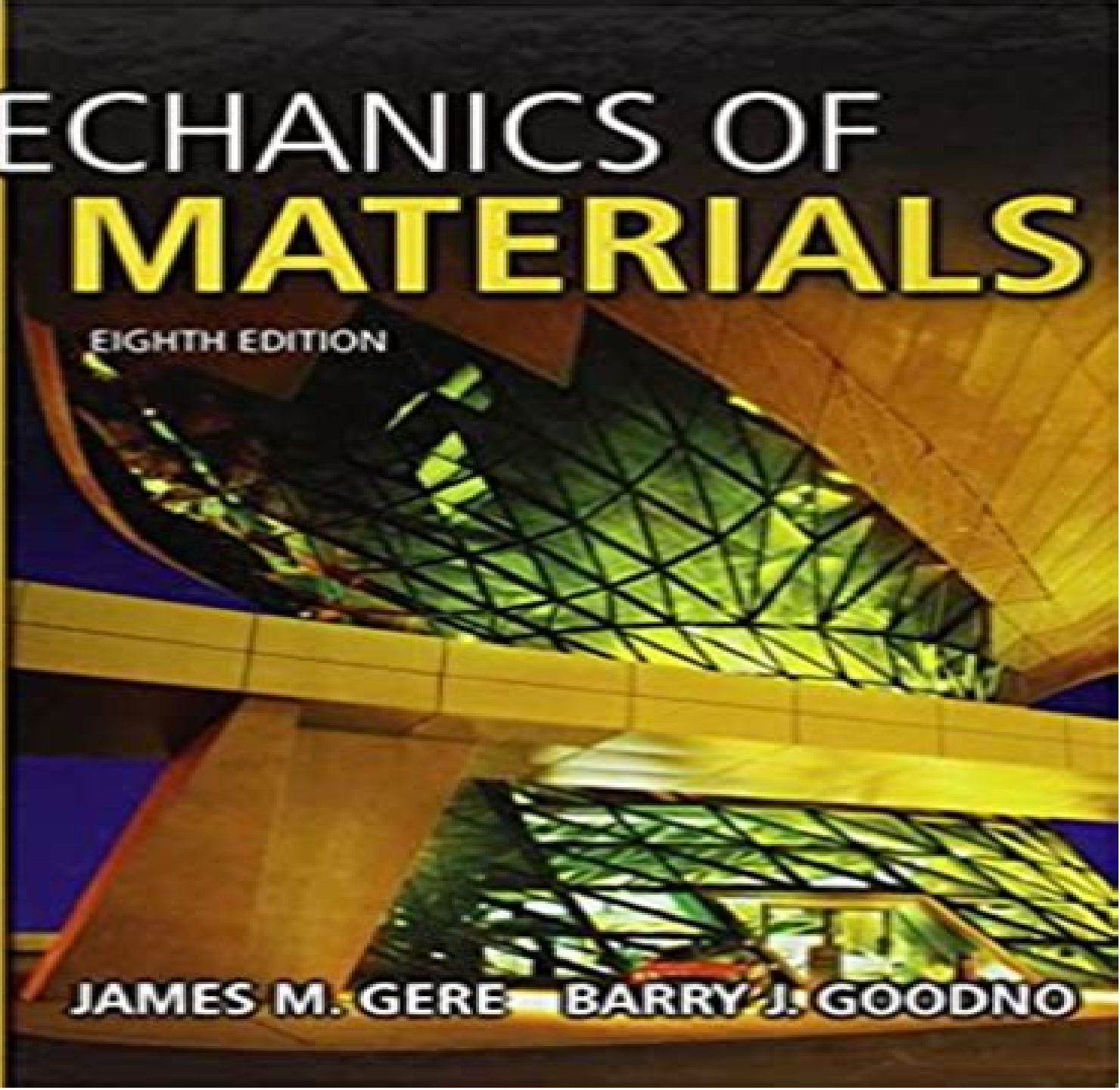


# MECHANICS OF **MATERIALS**

EIGHTH EDITION

**JAMES M. GERE   BARRY J. GOODNO**



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web a fluid container sealed by a piston is open c in this case an external axial force  $f_a$  is mandatory for equilibrium of the overall piston and cylinder assembly a bicycle pump is a common example if  $a_i$  is the internal circular area then a free body of either piston or cylinder end c must have  $f_a p_i a_i$  and there is no need for axial wall stresses to

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web the classic equation for hoop stress created by an internal pressure on a thin wall cylindrical pressure vessel is  $\sigma_\theta = p d / 2 t$  for the hoop stress thin wall pressure vessel hoop stress calculator where  $p$  is the internal pressure  $t$  is the wall thickness  $r$  is the inside radius of the cylinder

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web oct 9 2023 the development of the manufacturing process of thin walled and thick mounted cylinders which can largely improve the storage efficiency of hydrogen has also attracted considerable attention

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web when a thin walled tube or cylinder is subjected to internal pressure a hoop and longitudinal stress are produced in the



wall for the thin walled equations below the wall thickness is less than  $\frac{1}{20}$  of tube or cylinder diameter hoop circumferential stress

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web apr 5 2021 this experiment provides the insight on thin walled pressure cylinders where thickness is less than or equal to  $\frac{1}{10}$  of the internal diameter when axial and biaxial load is applied on it