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**L Reisser**



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web 120 3 mpa inner cylinder  $\sigma_t$  365 to 244 mpa  $\sigma_r$  0 to 120 3 mpa outer cylinder  $\sigma_t$  256 to 135 mpa  $\sigma_r$  120 3 to 0 mpa maximum internal pressure 395 mpa 5 a cylinder with closed ends has outer diameter  $d$  and a wall thickness  $t$  0 1  $d$  determine the age error involved in using thin wall cylinder

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1816 the engine was aimed at harvesting the energy carried by a stream of hot gases

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web consider now a simple spherical vessel of radius  $r$  and wall thickness  $b$  such as a round the accuracy  
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pc while

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web thin walled vessels are typically either spherical or cylindrical other geometries are possible but their complexity  
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equilibrium conditions i.e. without making use of compatibility conditions

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web in chapter 2 we examined the stresses in thin walled cylinders subjected to internal pressure the assumption of thin  
walls allowed us to develop a simple analysis that ignored the variation of radial stress when the wall thickness becomes  
appreciable in proportion

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web oct 12 2011 if the cylinder walls are thin and the ratio of the thickness to the internal diameter is less than about then  
it can be assumed that the hoop and longitudinal stresses are constant across the thickness it may also be assumed that the  
radial stress is small and can be neglected

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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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