

Scotland

# Writing Scotland

**Great Britain. Scottish Education  
Department**



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feb 25 2009 ham the real hero of the space race tue 24 feb 2009 19 01 est the real hero of the early american space programme was ham the astrochimp who went up before any of the first american mercury

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in this information and entertaining book featuring bold and lively illustrations richard hilliard celebrates the achievement of ham the astrochimp and space hero on january 31 1961 a three year old chimpanzee named ham made history in the u s space program

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ham july 1956 january 19 1983 also known as ham the chimp and ham the astrochimp was a chimpanzee and the first hominid launched into space on 31 january 1961 as part of america s space program

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on january 31 1961 an intrepid chimpanzee called ham was launched on a rocket from cape canaveral in the united states and returned to earth alive in this process he became the first hominin in space in the 1950s it was unclear whether humans could survive outside earth both physically and mentally

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ham july 1957 january 19 1983 a chimpanzee also known as ham the chimp and ham the astrochimp was the first great ape launched into space on january 31 1961 ham flew a suborbital flight on the mercury redstone 2 mission part

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ham the astro chimp ham the astrochimp holds a very special place in our heart the first hominoid launched into space ham was trained right here in alamogordo at holloman air force base ham was an important piece towards human space flight and is honored at our museum

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jan 31 2021 ham the astrochimp the first chimpanzee that went to space on january 31 1961 buzz saumya agrawal updated  
jan 31 2021 06 54 ist ham s flight was 16 minutes and 39 seconds long he experienced a total of 6 6 minutes of  
weightlessness ham the chimp

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sep 20 2023 at the new mexico museum of space history in alamogordo visitors leave bananas on the gravestone of ham the  
astrochimp as a tribute to the first great ape who was launched into space before an american went to space it was a  
chimpanzee that really paved the way says michael shinabery the museum s education specialist

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nov 14 2010 ham july 1956 january 19 1983 also known as ham the chimp and ham the astrochimp was the first hominid  
launched into outer space ham s name is an ac

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jun 29 2021 on january 31 1961 nasa launched ham the chimp into suborbital flight in an mr 2 rocket making him the first  
chimpanzee in space while the soviets had sent dogs into space before those missions merely tried to see if they could survive  
the trip

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story september 20 2023 on may 5 1961 alan shepard became the first american in space however three months earlier nasa  
had launched number 65 on a mission that helped pave the way for shepard s momentous flight number 65 was a male  
chimpanzee born in 1957 in the french cameroons in west africa

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jan 31 2011 ham the astrochimp as he came to be known is named for the holloman aerospace medical center the lab  
located on new mexico s holloman air force base that prepared him for his historic flight

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sep 26 2019 ham the first astrochimp the skeleton of chimpanzee ham is part of the collections at the national museum of  
health and medicine ham completed a suborbital spaceflight in a mercury capsule on jan 31 1961 he died at 26 years old and  
his skeleton was donated to nmhm by the united states air force and the smithsonian national zoo

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feb 2 2021 ham was leapfrogging to the front of the evolutionary queue in a planet of the apes style interspecies

competition ham s spaceflight made him more than animal but still less than human

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a three year old chimpanzee named ham in the biopack couch for the mr 2 suborbital test flight hams training took place in part at cape canaveral s hangar s on jan 31 1961 a mercury redstone launched from cape canaveral carrying the ham over 400 miles down range in an arching trajectory that reached a peak of 158 miles above the

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dec 16 2013 name ham the chimp species pan troglodytes dates 1957 1983 claim to fame first primate in space go visit national museum of health and medicine washington d c

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the success of ham s flight helped ratchet up even further the already frantic contest for scientific and space supremacy between the u s and the soviet union and briefly made ham something of a star here life com commemorates ham s 16 minute suborbital mission with photos taken before during and after his wild ride

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web may 18 2021 this experiment provides the insight on thin walled pressure cylinders where thickness is less than or equal to 10 of the internal diameter when axial and biaxial load is applied on it

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web thin sections often have negligibly small radial stress but accurate models of thicker walled cylindrical shells require such stresses to be considered in thick walled pressure vessels construction techniques allowing for favorable initial stress patterns can be utilized

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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 1d

determine the age error involved in using thin wall cylinder

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web 4 2 5 1 cycle overview the stirling engine is named after rev robert stirling 1790 1878 of scotland who in 1816 patented a hot air engine comprised of all the elements that are also found in contemporary engines of this type walker 1980 stirling 1816 the engine was aimed at harvesting the energy carried by a stream of hot gases

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web 7 3 2 thin walled cylinders the analysis of a thin walled internally pressurised cylindrical vessel is similar to that of the spherical vessel the main difference is that the cylinder has three different principal stress values the circumferential stress the radial stress and the longitudinal stress

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web sep 25 2023 a thin cylinder is defined as a cylinder with a diameter that is substantially bigger than its wall thickness in other words a thin mechanical cylinder or vessel has a wall thickness that is less than 1/20 of its internal diameter

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web preview thin walled cylinders of cast iron with internal pressure calculator formula a for wall thickness of thin walled cylinders  $t = d p 2 s$  formula b for low pressure cylinders of cast iron such as are used for certain engine and press applications common use is  $t = d p 2500 0 3$

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web thin wall cylinder objective to study the stress and strain developed in a thin wall cylinder under internal pressure to determine the poisson's ratio  $\nu$  and the young's modulus of elasticity  $e$  for the cylinder material apparatus fig 1 shows a thin walled cylinder of aluminum containing a freely supported piston

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web ton thin wall cylinders because the 14 ton thin wall cylinders contain the bulk of the duf6 inventory most calculations of cylinder stresses due to handling have been done for that type of cylinder the present report documents as many of the cases done at oak ridge for 14 ton thin wall cylinders as possible giving results and a

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web thin walled structures comprise an important and growing proportion of engineering construction with areas of application becoming increasingly diverse ranging from aircraft automotive bridges ships oil rigs to storage vessels industrial buildings and warehouses many factors including cost and weight economy new materials and processes and the

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buckling strength of structural plates june 1971

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web consider now a simple spherical vessel of radius  $r$  and wall thickness  $b$  such as a round the accuracy of this result depends on the vessel being thin walled i.e.  $r \gg b$  at the inner cylinder now expands according to the difference  $p - p_c$  while

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web thin walled vessels are typically either spherical or cylindrical other geometries are possible but their complexity precludes their inclusion in this webpage spherical cylinder stress and deflection filled to depth  $d$  with liquid of density  $\rho$  force unit volume tangential edge support equation and calculator

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web thin walled circular cylinders these stresses which entail a triaxial stress state can be readily obtained by simply setting 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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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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