

# BALLAST WATER MANAGEMENT PLAN (MANUAL)

To meet the requirements of Regulation B-1 of  
INTERNATIONAL CONVENTION FOR THE CONTROL AND MANAGEMENT  
OF SHIP'S BALLAST WATER AND SEDIMENTS, 2004  
AND THE IMO RESOLUTION MEPC. 127(53)  
GUIDELINES FOR BALLAST WATER MANAGEMENT AND DEVELOPMENT  
OF BALLAST WATER MANAGEMENT PLANS (G4)

APPROVED

13/DEC/2012

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# Ballast Study Manual

**RC Schank**



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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

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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 7 3 2 thin walled cylinders the analysis of a thin walled internally pressurised cylindrical vessel is similar to that of the

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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 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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we 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  $p_c$  while

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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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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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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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oct 12 2011 if the cylinder walls are thin and the ratio of the thickness to the internal diameter is less than about 1/10 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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a fluid container sealed by a piston is open to the atmosphere 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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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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