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Hydrostatics 5 1/9 The vehicle is filled with oil. [2 A 0 3 oil a ? m/s p p 0 Pa 950 kg / m =  $\hat{\alpha}' = \ddot{\bullet} = 1/10$  The tank wagon shown in the figure is taking a curve with a centripetal acceleration of  $a = 3 \text{ m/s}^2$ . The tank is filled with water.

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UNIVERSITY OF IOWA IIHR-HYDROSCIENCE & ENGINEERING, UNIVERSITY OF IOWA. 2 ... The density  
of a fluid is defined as its mass per unit volume.

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The moment arm is the (perpendicular) distance from the line of action of the pressure force (which is radially

outward) to the stop. Using trigonometry, the moment arm =  $0.6 \cdot h \cdot \cos(\hat{I}_1)$ .

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$F_h$   $F_R$   $F_2$  on the vertical projection,  $F_v$  weight of fluid above  $W$   $F_1$   $F$  buoyancy =  $g$  fluid " submerged For curved surface, separate the pressure force into horizontal and vertical part.

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About the Author. Hassan M. Badr is a Professor of Mechanical Engineering at King Fahd University of Petroleum and Minerals (KFUPM). He obtained his Ph.D. from the University of Western Ontario, Canada in 1977. Dr. Badr has taught many undergraduate and graduate courses in the areas of Thermodynamics, Fluid Mechanics, Heat Transfer, and Pumping Machinery.

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