

Chapter 13 Liquids
Archimedes' Principle I

1. Consider a balloon filled with 1 liter of water (1000 cm^3) in equilibrium in a container of water, as shown in Figure 1.

a. What is the mass of the 1 liter of water?

b. What is the weight of the 1 liter of water?

c. What is the weight of water displaced by the balloon?

d. What is the buoyant force on the balloon?

e. Sketch a pair of vectors in Figure 1:
one for the weight of the balloon and the
other for the buoyant force that acts on it.
How do the size and directions of your vectors compare?

1000 cm^3

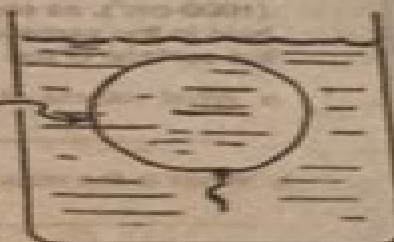


Figure 1

WATER DOES NOT
SINK IN WATER!



2. As a thought experiment, pretend we could remove the water from the balloon but still have it remain the same size of 1 liter. Then inside the balloon is a vacuum.

a. What is the mass of the liter of nothing?

b. What is the weight of the liter of nothing?

c. What is the weight of water displaced by
the nearly massless 1-liter balloon?

d. What is the buoyant force on the
nearly massless balloon?

e. In which direction would the nearly massless balloon be accelerated?

ANYTHING THAT DISPLACES
10 N OF WATER EXPERIENCES
10 N OF BUOYANT FORCE.



CUZ IF YOU PUSH 10 N OF WATER ASIDE
THE WATER PUSHES BACK ON YOU WITH 10 N!



Conceptual Physics Practice Page Liquids

Dr. Goyal, ,Upadhyay,Goyal



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Instructor's Manual [to Accompany] Conceptual Physics, Eighth Ed Paul G. Hewitt, 1998 Conceptual Physics Tenth Edition helps readers connect physics to their everyday experiences and the world around them with additional help on solving more mathematical problems Hewitt's text is famous for engaging readers with analogies and imagery from real world situations that build a strong conceptual understanding of physical principles ranging from classical mechanics to modern physics With this strong foundation readers are better equipped to understand the equations and formulas of physics and motivated to explore the thought provoking exercises and fun projects in each chapter Included in the package is the workbook Mechanics Properties of Matter Heat Sound Electricity and Magnetism Light Atomic and Nuclear Physics Relativity For all readers interested in conceptual physics

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Physics of Functional Materials Hasse Fredriksson, Ulla Åkerlind, 2008-09-15 Written by academics with more than 30 years experience teaching physics and material science this book will act as a one stop reference on functional materials Offering a complete coverage of functional materials this unique book deals with all three states of the material providing an insightful overview of this subject not before seen in other texts Includes solved examples a number of exercises and answers to the exercises Aims to promote understanding of the subject as a basis for higher studies The use of mathematically complicated quantum mechanical equations will be minimized to aid understanding For Instructors Students Visit Wiley's Higher Education Site for Supplements Online Resources Technology Solutions Instructors may request an evaluation copy for this title

Laboratory Practice, 1991 **Cryogenics Safety Manual** British Cryogenics Council. Safety Panel, 1970

Study Guide in Physics: Fluid mechanics, waves, thermodynamics Victor Namias, 1974 **The Practice of Pharmacy ...** Joseph Price Remington, 1965 **British Journal of Applied Physics**, 1958 **Journal of Fluids Engineering**, 1980 **Radioactive Waste Management**, 1995-11 **Dynamic Fluids and Transport in Fractured Rock** Boris Faybishenko, Paul A. Witherspoon, John Gale, 2005-01-14 A comprehensive review and analysis of recent field laboratory and modeling investigations of flow and transport through fractured rock worldwide Topics include recent advances in modeling unsaturated flow and transport processes field and laboratory experiments microbiological processes coupled process and geothermal resources NAPL transport in fractured rock geochemistry and chemical transport and more

Engineering, 1917 **Rubber Journal**, 1925 **Battelle Technical Review** Battelle Memorial Institute, 1966

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