

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

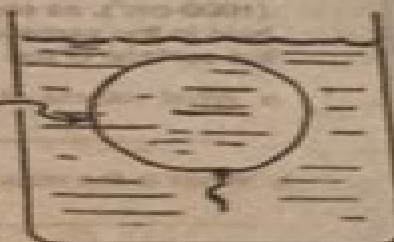


Figure 1

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 Liquids Answers

Kevin Andrew Tang Silverstein



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Conceptual Physics, 1985 Rev ed of *Conceptual physics a new introduction to your environment* 4th ed 1981

Conceptual Physics--a New Introduction to Your Environment, 1981 **Examination Questions and Answers in Basic Anatomy and Physiology** Martin Caon, 2016-10-11 This book provides two thousand multiple choice questions on human anatomy and physiology separated into 40 categories The answer to each question is accompanied by an explanation Each category has an introduction to set the scene for the questions to come However not all possible information is provided within these Introductions so an Anatomy and Physiology textbook is an indispensable aid to understanding the answers The questions have been used in examinations for undergraduate introductory courses and as such reflect the focus of these particular courses and are pitched at the level to challenge students that are beginning their training in anatomy and physiology The questions and answer combinations are to be used both by teachers to select questions for their next examinations and by students when studying for an upcoming test Students enrolled in the courses for which these questions were written include nursing midwifery paramedic physiotherapy occupational therapy nutrition dietetics health sciences and students taking an anatomy and physiology course as an elective Student Study Guide & Selected Solutions Manual David D. Reid, 2007 *The Science Teacher*, 1995 Some issues are accompanied by a CD ROM on a selected topic

Physics John D. Cutnell, 2004 *Liquids*, 1989-07 **Journal** Oil and Colour Chemists' Association (Great Britain), 1918

Fluctuation Theory of Solutions Paul E. Smith, Enrico Matteoli, John P. O' Connell, 2016-04-19 There are essentially two theories of solutions that can be considered exact the McMillan Mayer theory and Fluctuation Solution Theory FST The first is mostly limited to solutes at low concentrations while FST has no such issue It is an exact theory that can be applied to any stable solution regardless of the number of components and their co *Journal of the Oil & Colour Chemists' Association*, 1919 **Educational Technology**, 1984 **Evaluation Package for Cutnell and Johnson Physics 8E**

Cutnell, 2008-10-28 *Physics* Art Hobson, 2003 Resource added for the Physics 10 805 150 courses Study Guide with ActivPhysics Alan Van Heuvelen, 1999 Munson, Young and Okiishi's Fundamentals of Fluid Mechanics Philip M.

Gerhart, Andrew L. Gerhart, John I. Hochstein, 2016-01-11 *Fundamentals of Fluid Mechanics* offers comprehensive topical coverage with varied examples and problems application of visual component of fluid mechanics and strong focus on effective learning The text enables the gradual development of confidence in problem solving Each important concept is introduced in easy to understand terms before more complicated examples are discussed *Hydrophobicity in a Simple Model of Water*

Kevin Andrew Tang Silverstein, 1997 **Diagrammatic Reasoning** B. Chandrasekaran, Janice Glasgow, N. Hari Narayanan, 1995 foreword by Herbert Simon *Diagrammatic reasoning the understanding of concepts and ideas by the use of diagrams and imagery as opposed to linguistic or algebraic representations not only allows us to gain insight into the way we think but is a potential base for constructing representations of diagrammatic information that can be stored and processed*

by computers Diagrammatic Reasoning brings together recent investigations into the cognitive the logical and particularly the computational characteristics of diagrammatic representations and the reasoning that can be done with them Following a foreword by Herbert Simon and an introduction by the editors twenty seven chapters provide an overview of the recent history of the subject survey and extend the underlying theory of diagrammatic representation and provide numerous examples of diagrammatic reasoning human and mechanical that illustrate both its powers and its limitations Each of the book s four sections Historical and Philosophical Background Theoretical Foundations Cognitive and Computational Models and Problem Solving with Diagrams begins with an introduction by an eminent researcher These introductions provide interesting personal perspectives as well as place the work in the proper context Distributed for AAAI Press

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