

CONCEPTUAL PHYSICAL SCIENCE**Experiment****Fluid Mechanics****Buoyancy and Flotation Simulation**

Pool Cubes: Buoyancy

Purpose

To investigate the nature of the buoyant force and to see the role it plays in determining whether or not an object floats

Apparatus

computer

PhET sim "Buoyancy" (available at <http://phet.colorado.edu>)

Discussion

When objects are immersed in a fluid, the fluid exerts a force on them. This is the buoyant force.

Procedure**INITIAL SETUP**

Turn the computer on, and let it complete its start-up cycle. Locate and open the PhET sim "Buoyancy," and note that it opens in its "Intro" tab. Do not change the settings in the on-screen Blocks, Fluids, or Show Forces panels.

PART A: WOOD

Step 1: Measure (in the sim) and record the weight (W) of the ^{4.00} 3.00-kg wood block.

39.2 N

Step 2:

- Place the wood block in the water and notice that it floats.
- When the wood block rests on the ground, the downward gravitational force is balanced by an upward normal ("contact") force. When the wood block is floating, the gravitational force is still there, but the normal ("contact") force is not. The force exerted by the fluid is the buoyant force (B). When the block is floating, which force on it is greater: the gravitational force or the buoyant force? Defend your answer.

Buoyant force, because if the gravitational force was
greater it would be pushed below the water.

- Record the value of the buoyant force acting on the wood block.

39.2 N

Step 3:

- What volume of water does the wood block displace when it floats in the water?

4L

Pool Cubes Buoyancy Answers

J Spring



Pool Cubes Buoyancy Answers:

Atmospheric Thermodynamics Craig Bohren, Bruce Albrecht, 2023-05-05 *Atmospheric Thermodynamics* provides a comprehensive treatment of a subject that can often be intimidating. The text analyses real life problems and applications of the subject alongside of guiding the reader through the fundamental basics and covering the first and second laws and the ideal gas law followed by an emphasis on moist processes in Earth's atmosphere. Water in all its phases is a critical component of weather and the Earth's climate system. With user friendly chapters that include energy conservation and water and its transformations the authors write with a willingness to expose assumptions and approximations usually absent in other textbooks. History is woven into the text to provide a context for the time evolution of thermodynamics and its place in atmospheric science and demonstrating how physical reasoning leads to correct explanations of everyday phenomena. Many of the experiments described were done using inexpensive instruments to take advantage of the earth's atmosphere as a freely accessible thermodynamics library. This second edition provides updated treatments of atmospheric measurements and substantially expanded sections that include atmospheric applications of the first and second laws and energy exchange between humans and their atmospheric environment. With 400 thought provoking problems and 350 references with annotated notes and further reading suggestions this second edition provides a basic understanding of the fundamentals of this subject while still being a comprehensive reference guide for those working in the field of atmospheric and environmental sciences.

Sink Or Float Keith Kendig, 2008 *Sink or Float Thought Problems in Math and Physics* is a collection of problems drawn from mathematics and the real world. Its multiple choice format forces the reader to become actively involved in deciding upon the answer. The book's aim is to show just how much can be learned by using everyday common sense. The problems are all concrete and understandable by nearly anyone meaning that not only will students become caught up in some of the questions but professional mathematicians too will easily get hooked. The more than 250 questions cover a wide swath of classical math and physics. Each problem's solution with explanation appears in the answer section at the end of the book. A notable feature is the generous sprinkling of boxes appearing throughout the text. These contain historical asides or little known facts. The problems themselves can easily turn into serious debate starters and the book will find a natural home in the classroom.

Physics Larry D. Kirkpatrick, Gerald F. Wheeler, 1998 This text offers a conceptual survey of physics in an easily understood presentation. The revision includes pedagogy photographs and updated examples to guide non science students through the course.

Oceans, 1982 *A Guide for Using Missing May in the Classroom* Janet Buckley, Lauren Corcoran, 2001 Provides many activities to use when presenting *Missing May* by Cynthia Rylant. Projects include pre reading activities, biographical sketch, book summary, vocabulary lists and book report activities.

Warning Shots, Just A Cop, and Vanishing Tracks Dave Donaldson, 2009 **English Mechanic and World of Science**, 1878 **College Physics** Jerry D. Wilson, 2000 **Physics** George Gamow, John M. Cleveland, 1969 *English*

Mechanic and Mirror of Science ,1876

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