

14

Fluid Mechanics

CHAPTER OUTLINE

- 14.1 Pressure
- 14.2 Variation of Pressure with Depth
- 14.3 Pressure Measurements
- 14.4 Buoyant Forces and Archimedes's Principle
- 14.5 Fluid Dynamics
- 14.6 Bernoulli's Equation
- 14.7 Other Applications of Fluid Dynamics

ANSWERS TO QUESTIONS

- *Q14.1** Answer (c). Both must be built the same. The force on the back of each dam is the average pressure of the water times the area of the dam. If both reservoirs are equally deep, the force is the same.

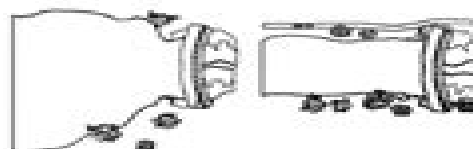


FIG. Q14.1

- Q14.2** The weight depends upon the total volume of water in the glass. The pressure at the bottom depends only on the depth. With a cylindrical glass, the water pushes only horizontally on the side walls and does not contribute to an extra downward force above that felt by the base. On the other hand, if the glass is wide at the top with a conical shape, the water pushes outward and downward on each bit of side wall. The downward components add up to an extra downward force, more than that exerted on the small base area.
- Q14.3** The air in your lungs, the blood in your arteries and veins, and the protoplasm in each cell exert nearly the same pressure, so that the wall of your chest can be in equilibrium.
- Q14.4** Yes. The propulsive force of the fish on the water causes the scale reading to fluctuate. Its average value will still be equal to the total weight of bucket, water, and fish.
- Q14.5** Clap your shoe or wallet over the hole, or a seat cushion, or your hand. Anything that can sustain a force on the order of 100 N is strong enough to cover the hole and greatly slow down the escape of the cabin air. You need not worry about the air rushing out instantly, or about your body being "sucked" through the hole, or about your blood boiling or your body exploding. If the cabin pressure drops a lot, your ears will pop and the saliva in your mouth may boil—at body temperature—but you will still have a couple of minutes to plug the hole and put on your emergency oxygen mask. Passengers who have been drinking carbonated beverages may find that the carbon dioxide suddenly comes out of solution in their stomachs, distending their vests, making them belch, and all but frothing from their ears; so you might warn them of this effect.
- Q14.6** The boat floats higher in the ocean than in the inland lake. According to Archimedes's principle, the magnitude of buoyant force on the ship is equal to the weight of the water displaced by the ship. Because the density of salty ocean water is greater than fresh lake water, less ocean water needs to be displaced to enable the ship to float.

Sm Chapter 14

Anthony S. Fauci



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An Introduction to Statistical Thermodynamics Terrell L. Hill, 2012-06-08 Four part treatment covers principles of quantum statistical mechanics systems composed of independent molecules or other independent subsystems and systems of interacting molecules concluding with a consideration of quantum statistics

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Gauge Theory of Weak Decays Andrzej Buras, 2020-07-02 The ultimate question of elementary particle physics is What is the fundamental Lagrangian of nature surrounding us The Lagrangian of the SM is very successful in describing nature at the currently available energy range The discovery of the Higgs boson completed the particle spectrum of the SM and it is another proof of how well the SM works Nevertheless the SM cannot be the end of the story and it is for sure not the fundamental Lagrangian of nature The Lagrangian of the SM loses its validity at the latest at the Planck scale where gravitational effects become noticeable Most physicists think of the SM as an effective theory that has to be replaced by a more fundamental theory above the TeV scale What the word effective really means will hopefully be clear at later stages of our book For the time being we will list some problems and open questions of the SM

21st Century Homestead: Nitrogen-Fixing Crops Stanley Bilello, 2016-10-10 21st Century Homestead Nitrogen Fixing Crops contains everything you need to stay up to date on nitrogen fixing crops for your sustainable farm or garden

Only the Beginning W.J. May, 2017-06-15 USA TODAY Bestselling author W J May brings you the highly anticipated continuation of the Hidden Secrets Saga The Twisted Red Riding Hood fairytale continues in the Prophecy Series This is a stand alone series or maybe be read in continuation of the Seventh Mark books Be Prepared There are werewolves in this story and they are NOT friendly Peace comes at a price Rebekah and Jamie are happy but discontent Sometimes it feels like everything important has already happened that the peace their parents fought so hard to bring them is just a strange limbo they can't break out of They want adventure they want to make memories of their own

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Theoretical Ecology Ryan Chisholm, 2025-09-09 An accessible and wide ranging introduction to the concepts and tools of theoretical ecology Theoretical ecology explores the mechanisms that structure ecological communities using a variety of mathematical and computational tools Theoretical Ecology shows you how to translate ecological problems into mechanistic models using both mathematics and the programming language R The book teaches key concepts and core quantitative skills while also devoting significant attention to the reasons for building mathematical ecological models Why do species populations fluctuate over time and space How do multiple species coexist What forces drive nutrient and carbon cycles Does higher species diversity lead to higher biomass Each chapter in this incisive and informative book is motivated by questions like these and every chapter includes boxes that delve into mathematical details and provide coding examples in R Focuses on mathematical and computational methods while also drawing on conceptual and graphical approaches and explores how the various approaches complement one another Teaches students the skills they need to implement and analyze ecological models in R Covers topics ranging from single species competition and predator prey models to

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