



The Omega Document

PHYS 2210 — Prof. Wiggins

Courage is your best defense now...—Gandalf

All formulas will be given on the actual exam. You should not need to memorize anything for the exam. The list below is not fully exhaustive, but it's my best, good-faith attempt to be thorough. Hopefully this document helps you identify areas for potential study. Your best resource in studying for the final is your **previous exams**.

Test I: Fluids

- Derive density of a substance given the volume a specified mass occupies
- Use the fact that pressure increases *linearly* with density to solve problems, i.e. use $P = P_0 + \rho g d$.
- Use the fact that pressure in a static fluid is only a function of depth from the surface, regardless of other factors. *Compare two cylindrical tanks filled with water to the same depth, but having different radii...*
- Calculate pressure at some depth in a stack of multiple types of fluids
- Solve manometer problems, and successfully intuit relative levels of fluid in a manometer to compare vapor and atmospheric pressures
- Solve barometer problems
- Identify pressure effects from the atmosphere, e.g. the atmosphere is responsible for hoisting fluid up a straw
- Calculate the buoyant force from its definition $F_B = \rho V g$
- Correctly deduce that $mg = F_B$ for statically floating objects and exploit this to solve buoyancy problems, *how much of the volume of the solid is submerged, etc.*
- Successfully explain the difference between *gauge pressure* and *absolute pressure*
- Use the continuity equation $A_1 v_1 = A_2 v_2$ to calculate fluid velocity
- Be able to explain the origin of the continuity equation: *assumption of incompressibility, same "through-put" required at all sequential points in a pipe, vA is a volume flow rate, etc.*
- Use Bernoulli's equation, $P_1 + \frac{1}{2}\rho v_1^2 + \rho g y_1 = P_2 + \frac{1}{2}\rho v_2^2 + \rho g y_2$, to solve a variety of problems.

Test II: Oscillations, Waves, Sound, Light and Optics

Oscillations

- Describe oscillations mathematically using $x(t) = A \sin(\omega t + \phi)$
- Use the definitions of frequency, angular frequency, period, phase shift and amplitude to solve oscillation problems.

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Adopting the Tune of Appearance: An Psychological Symphony within **The Omega Document**

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