

AH PHYSICS TUTORIAL SOLUTIONS



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AH Physics: Rotational Motion Problems Solutions Page 4 2013. TUTORIAL 2.0 Angular motion. 1. $360^\circ = 2\pi$ radians, hence to convert from degrees to radians multiply by. $\frac{1}{180} \pi$. $\frac{1}{6}$ (0.52), $\frac{1}{4}$ (0.78), $\frac{1}{2}$ (1.57), π (3.14), $1.5 \times \pi$ (4.71), 2π (6.28) [Notice that 360° is 6.28 radians, it is useful to get a feel for the size of a radian] 2.

Advanced Higher Physics Rotational Motion Solutions

Physics (AH): 48Mechanics - Student Materials. TUTORIAL 5 Gravitation. 1 Show that the force of attraction between two large ships of mass 50000 tonnes and separated by a distance of 20 m is 417 N. (1 tonne = 1000 kg) 2 Calculate the gravitational force of attraction between the proton and the electron in a hydrogen atom.

Physics

AH Physics: Astrophysics Problems Solutions Page 3 2013 10 (a) The minimum velocity a mass must have that would allow it to escape from the gravitational field of the planet or star. (Moon) = 2.4×10^3 m s⁻¹ (ii) Escape velocity on the Moon is very small so there will be no atmosphere. 11. -2 13.

Advanced Higher Physics Astrophysics Solutions

22 CHAPTER 1. UNITS AND VECTORS: TOOLS FOR PHYSICS. 1.2.5 Multiplying Vectors. 25. Vector A extends from the origin to a point having polar coordinates $(7, 70^\circ)$ and vector B extends from the origin to a point having polar coordinates $(4, 130^\circ)$.

Worked Examples from Introductory Physics Vol. I: Basic

This physics textbook is designed to support my personal teaching activities at Duke University, in particular teaching its Physics 141/142, 151/152, or 161/162 series (Introductory Physics for life science majors, engineers, or potential physics majors, respectively).

Introductory Physics I - Duke University

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Tutorials in Introductory Physics - PER User's Guide

Workshop Tutorials for Introductory Physics Solutions to MI8: Momentum A. Review of Basic Ideas: Momentum Momentum is one of those words that is used in different contexts. In politics you may hear about a political movement gaining momentum when it becomes more popular and powerful, while in physics it has a similar, but very specific meaning.