

### Tutorial #6 – Dynamics of Circular Motion

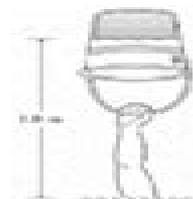
- (K4 Ex8.10mod)
  - What is the maximum speed (in km/h) with which a 1500 kg car can successfully take a highway exit ramp of radius 50 m on a level (unbanked) road in dry conditions without sliding? ( $\mu_s = 1.0$ )
  - How does the maximum speed from Part A. change if the roads are wet? ( $\mu_s = 0.3$ )
  - What is the correct banking angle if a car, traveling at 50 km/h, can take this curve without assistance from friction? (Hint: Use the trigonometric identity  $\tan \theta = \frac{\sin \theta}{\cos \theta}$ )
  - What direction (not magnitude!) is the friction force on a car if it takes the curve at a speed of 70 km/h?

- (K4 Ex8.13mod) Mass  $m_1 = 1.0 \text{ kg}$  on a frictionless table is connected by a string through a hole in the table to a hanging mass  $m_2 = 2.0 \text{ kg}$ . With what angular velocity must  $m_1$  rotate in a circle of radius  $r = 50 \text{ cm}$  if  $m_2$  is to remain hanging at rest?



- (K4 Ex8.17) Communications satellites are placed in circular orbits where they stay directly over a fixed point on the equator as the earth rotates. These are called *geosynchronous orbits*. The altitude of a geosynchronous orbit is  $3.58 \times 10^7 \text{ m}$ .
  - What is the period of a satellite in a geosynchronous orbit? (Use common sense!)
  - Find the value of  $g$  at this altitude. (Full derivation required. Do not use Newton's law of universal gravitation.)
  - What is the weight of a 2000 kg satellite in a geosynchronous orbit?

- (K4 Ex8.22) A student has 65-cm-long arms. What is the minimum angular velocity (in rpm) for swinging a bucket of water in a vertical circle without spilling any? The distance from the handle to the bottom of the bucket is 35 cm. (Hint: This is similar to the minimum speed of a roller coaster.)



- (K4 P8.70) A 500 g steel block rotates on a steel table while attached to a 1.2-m-long hollow tube as shown. Compressed air fed through the tube and ejected from a nozzle on the back of the block exerts a thrust force of 4.0 N perpendicular to the tube. The maximum tension the tube can withstand without breaking is 50 N. If the block starts from rest, how many revolutions does it make before the tube breaks? ( $\mu_k = 0.60$ )



Answers: 1) a. 80 km/h, b. 44 km/h, c.  $21^\circ$ , d. Down the ramp. 2) 6.3 rad/s. 3) a. 86,400 s, b.  $0.223 \text{ m/s}^2$ , c. 0 N. 4) 30 rpm. 5) 3.8 rev.

# Challenge Problem Solutions Circular Motion Dynamics

**Stan Z. Li**



## **Challenge Problem Solutions Circular Motion Dynamics:**

**The Key to Newton's Dynamics** J. Bruce Brackenridge, 1995 The Key to Newton's Dynamics is lucid, important, and fills a large gap in the existing literature. Brackenridge is undoubtedly that gifted, patient teacher that one expects from a quality liberal arts college. Alan E. Shapiro, University of Minnesota.

*Core Concepts of Mechanics and Thermodynamics* Rituraj Dalal, 2025-02-20 Core Concepts of Mechanics and Thermodynamics is a textbook designed for students and anyone interested in these crucial areas of physics. The book begins with the basics of mechanics, covering motion, forces, and energy, and then moves on to thermodynamics, discussing heat, temperature, and the laws of thermodynamics. The book emphasizes clear explanations and real-world examples to illustrate concepts, and it also provides problem-solving techniques to apply what you learn. It covers mechanics and thermodynamics from basic principles to advanced topics, explains concepts clearly with examples, teaches problem-solving techniques, connects theory to real-world applications in engineering, physics, and materials science, and includes historical context to show the development of these ideas. Core Concepts of Mechanics and Thermodynamics is a valuable resource for students, teachers, and self-learners. Whether you are beginning your journey or seeking to deepen your understanding, this book provides a solid foundation in these essential subjects.

**How to Solve Physics Problems** Daniel Milton Oman, Robert Milton Oman, 2016-01-01 Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Learn how to solve physics problems the right way. How to Solve Physics Problems will prepare you for physics exams by focusing on problem solving. You will learn to solve physics problems naturally and systematically, and in a way that will stick with you. Not only will it help you with your homework, it will give you a clear idea of what you can expect to encounter on exams. 400 physics problems thoroughly illustrated and explained. Math review for the right start. New chapters on quantum physics, atoms, molecules, and solids, and nuclear physics.

*Elements of Statistical Learning* Swarnalata Verma, 2025-02-20 Elements of Statistical Learning stands out as a comprehensive resource for both students and professionals in the field of data science and statistical learning. With clear and concise explanations, real-world examples, and practical insights, this book caters to a wide audience, from beginners to experienced practitioners. We offer a structured approach to understanding statistical learning, starting with fundamental concepts and guiding readers through various techniques and algorithms. Topics include data structures, sorting and searching algorithms, graph and tree algorithms, and dynamic programming. What sets Elements of Statistical Learning apart is its emphasis on practical application. Each chapter presents theoretical concepts and provides implementation guidelines, discussing the efficiency and effectiveness of different algorithms in solving real-world problems. This approach equips readers to tackle challenges in academic pursuits, technical interviews, or professional projects. The book's extensive coverage ensures it remains relevant in today's evolving landscape of data science and technology. Whether interested in software engineering, data science, artificial intelligence, or related

fields **Elements of Statistical Learning** offers timeless insights and guidance in statistical learning and analysis **How To Solve Physics Problems** Robert M. Oman, Daniel M. Oman, 1997 This is a comprehensive presentation of the fundamental core concepts in physics It provides fewer problems than an outline but goes into greater depth and explanations in the solution **Planetary Astronomy from the Renaissance to the Rise of Astrophysics, Part A, Tycho Brahe to Newton** R. Taton, C. Wilson, Michael Hoskin, 2003-09-18 The International Astronomical Union and the International Union for the History and Philosophy of Science have sponsored a major work on the history of astronomy which the Press publishes are in four volumes three of which will be divided into two parts Publication commenced with volume 4 part A The history of astronomy has never been tackled on this scale and depth and this major synthesis breaks wholly new ground The individual chapters of each volume have been prepared by leading experts in every field of the history of astronomy **Acta Physica Hungarica**, 1977 *Physics in India, Challenges and Opportunities*, 1970 Papers and proceedings **Acta Physica Academiae Scientiarum Hungaricae**, 1977 Encyclopedia of Biometrics Stan Z. Li, 2009-08-27 With an A Z format this encyclopedia provides easy access to relevant information on all aspects of biometrics It features approximately 250 overview entries and 800 definitional entries Each entry includes a definition key words list of synonyms list of related entries illustration s applications and a bibliography Most entries include useful literature references providing the reader with a portal to more detailed information **New Trends in Astrodynamics and Applications** Edward Belbruno, 2005 **Physics for Scientists and Engineers** Douglas C. Giancoli, 1988 For the calculus based General Physics course primarily taken by engineers and science majors including physics majors This long awaited and extensive revision maintains Giancoli s reputation for creating carefully crafted highly accurate and precise physics texts **Physics for Scientists and Engineers** combines outstanding pedagogy with a clear and direct narrative and applications that draw the student into the physics The new edition also features an unrivaled suite of media and on line resources that enhance the understanding of physics **Special Issue, Current and Future Challenges in the Applications of Mathematics**, 1998 *University Physics* Hugh D. Young, Roger A. Freedman, 2000 This work aims to enable students to develop physical intuition and strong problem solving skills In addition it points out the conceptual and computational pitfalls that commonly plague beginner physics students **Journal of Guidance, Control, and Dynamics**, 2009 Pope John Paul II and the Challenges of Papal Diplomacy Pope John Paul II, André Dupuy, 2004 *The Software Encyclopedia*, 1988 Astrodynamics, Space Missions, and Chaos Edward Belbruno, David Folta, Pini Gurfil, 2004 The subject of astrodynamics is of particular interest at this critical juncture for space projects in the wake of the Columbia disaster This volume based on a conference sponsored by NASA and Princeton University comprises papers on the applications of chaos and dynamical systems including considerations of asteroid pairs near Earth objects and asteroidal dust formation flying optimization guidance and control systems mission design orbit dynamics and propulsion including material on NASA s major initiative Project Prometheus The

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