

Solutions for Assignment # 3

by Dru Renner

Problem 3.1

Let the mass of the particle be $m = 6.0$ kg. The two forces (measured in Newtons) acting on it are

$$\vec{F}_1 = 2\hat{x} - 5\hat{y} + 3\hat{z} \quad \text{and} \quad \vec{F}_2 = -4\hat{x} + 8\hat{y} + \hat{z}$$

(a) The net force is the vector sum of the two vectors.

$$\vec{F}_{\text{net}} = \vec{F}_1 + \vec{F}_2 = -2\hat{x} + 3\hat{y} + 4\hat{z}$$

(b) The acceleration follows from Newton's Second Law.

$$\vec{a} = \frac{1}{m}\vec{F}_{\text{net}} = -\frac{1}{3.0}\hat{x} + \frac{1}{2.0}\hat{y} + \frac{2}{3.0}\hat{z}$$

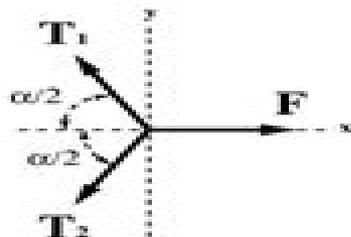
The magnitude of acceleration is given by

$$|\vec{a}| = \frac{1}{6.0}\sqrt{29} \approx 0.90 \text{ m/s}^2$$

Note that the mass was given as $m = 6.0$ kg and we were told that the force was given in units of Newtons, so simply "plugging" in the numbers will give an answer in units of m/s^2 .

Problem 3.2

Let $\alpha = 120^\circ$ be the opening angle, T_1 be the tension in the upper half of the string, T_2 be the tension in the lower half of the string, and $F = 180$ N be the force the archer exerts on the bow string. Note the archer pulls at the middle of the string so the picture below is symmetric.



Assignment Classical Mechanics Solution

John Dirk Walecka



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Mathematical Computation with Maple V: Ideas and Applications Thomas Lee, 2012-12-06 Developments in both

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textbooks and it is thoroughly illustrated with more than 600 figures to help demonstrate key concepts Classical Mechanics Carolina C. Ilie, Zachariah S. Schrecengost, Elina M. van Kempen, 2022-12-29 This book of problems and solutions in classical mechanics is dedicated to junior or senior undergraduate students in physics engineering applied mathematics astronomy or chemistry who may want to improve their problems solving skills or to freshman graduate students who may be seeking a refresh of the material The book is structured in ten chapters starting with Newton's laws motion with air resistance conservation laws oscillations and the Lagrangian and Hamiltonian Formalisms The last two chapters introduce some ideas in nonlinear dynamics chaos and special relativity Each chapter starts with a brief theoretical outline and continues with problems and detailed solutions A concise presentation of differential equations can be found in the appendix A variety of problems are presented from the standard classical mechanics problems to context rich problems and more challenging problems Key features Presents a theoretical outline for each chapter Motivates the students with standard mechanics problems with step by step explanations Challenges the students with more complex problems with detailed solutions *Solutions Manual to Accompany Classical Mechanics* Tai L. Chow, 1995 **Proceedings** Physical Society (Great Britain), 1927 *Scientific and Technical Aerospace Reports*, 1967 *Student Solutions Manual for Thornton and Marion's Classical Dynamics of Particles and Systems* Stephen T. Thornton, 2004 The Student Solutions Manual contains detailed solutions to 25 percent of the end of chapter problems as well as additional problem solving techniques

Proceedings of the Physical Society Physical Society of London, 1927 *Theory of Sum Frequency Generation Spectroscopy* Akihiro Morita, 2018-08-02 This book describes fundamental theory and recent advances of sum frequency generation SFG spectroscopy SFG spectroscopy is widely used as a powerful tool of surface characterization although theoretical interpretation of the obtained spectra has been a major bottleneck for most users Recent advances in SFG theory have brought about a breakthrough in the analysis methods beyond conventional empirical ones and molecular dynamics MD simulation of SFG spectroscopy allows for simultaneous understanding of observed spectra and interface structure in unprecedented detail This book explains these recently understood theoretical aspects of SFG spectroscopy by the major developer of the theory The theoretical topics are treated at basic levels for undergraduate students and are described in relation to computational chemistry such as molecular modeling and MD simulation toward close collaboration of SFG spectroscopy and computational chemistry in the near future Proceedings of the Physical Society Institute of Physics and the Physical Society, 1927 *The Logical Analysis of Quantum Mechanics* Erhard Scheibe, 1973 **New Paths Towards Quantum Gravity** Bernhelm Booß-Bavnbek, Giampiero Esposito, Matthias Lesch, 2010-07-23 Aside from the obvious statement that it should be a theory capable of unifying general relativity and quantum field theory not much is known about the true nature of quantum gravity New ideas and there are many of them for this is an exciting field of research often diverge to a degree where it seems impossible to decide in which of the many possible directions the ongoing developments

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Classical Mechanics Konstantin Konstantinovich Likharev, 2017 Essential Advanced Physics is a series comprising four parts Classical Mechanics Classical Electrodynamics Quantum Mechanics and Statistical Mechanics Each part consists of two volumes Lecture notes and Problems with solutions further supplemented by an additional collection of test problems and solutions available to qualifying university instructors This volume Classical Mechanics Problems with solutions contains detailed model solutions to the exercise problems formulated in the companion Lecture notes volume In many cases the solutions include result discussions that enhance the lecture material For the reader s convenience the problem assignments are reproduced in this volume Source r sum de l diteur

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