

1. A 600 g mass is hung from a vertical spring. It oscillates up and down with a period of 0.500 s. The mass is pushed up from its equilibrium position ($y = 0$) by 10.0 cm and released.
- Write an equation for the vertical position of the mass as a function of time, t , after the mass was released.
 - What is the maximum speed of the mass?
 - What is the spring constant, k , of the spring?
 - What is the maximum net force exerted on the mass?
 - If the mass were given an initial downward speed of 1.00 m/s at $t = 0$, instead of being released from rest, what would be the new answers for parts (b) and (c).



⑤ (a) $\omega = \frac{2\pi}{T} = \frac{2\pi}{0.5 \text{ s}} = 4\pi \text{ s}^{-1} = 12.57 \text{ Hz}$

$$y(t) = y_m \cos(\omega t + \phi)$$

at $t=0$ $y = y_m \Rightarrow \phi = 0$; $y_m = 0.1 \text{ m}$

$$y = (0.1 \text{ m}) \cos(4\pi t)$$

⑤ (b) $v = dy/dt = -y_m \omega \sin(\omega t)$

$$v_m = y_m \omega = (0.1 \text{ m})(4\pi \text{ s}^{-1}) = 1.26 \text{ m/s}$$

⑤ (c) $k = m \omega^2 = (0.6 \text{ kg})(4\pi \text{ s}^{-1})^2 = 94.7 \text{ N/m}$

⑤ (d) $F_m = k y_m = (94.7 \text{ N/m})(0.1 \text{ m}) = 9.47 \text{ N}$

or $F_m = m a_m = m(\omega^2 y_m)$

⑤ (e) Now $E = \frac{1}{2} k x_0^2 + \frac{1}{2} m v_0^2$

② — k does not change depends only on spring properties

$$E = \frac{1}{2} (94.7 \text{ N/m})(0.1 \text{ m})^2 + \frac{1}{2} (0.6 \text{ kg})(1 \text{ m/s})^2 = 0.774 \text{ J}$$

④ also $E = \frac{1}{2} m v_m^2$

$$v_m = \sqrt{2E/m} = \sqrt{\frac{2(0.774 \text{ J})}{0.6 \text{ kg}}} = 1.61 \text{ m/s}$$

Mechanics 2 Exam Solutions

Thomas Bond, Chris Hughes



Mechanics 2 Exam Solutions:

Soil Mechanics and Foundations B. C. Punmia, Ashok Kumar Jain, 2005 *Cambridge International AS and A Level Mathematics: Mechanics 2 Coursebook* Douglas Quadling, Julian Gilbey, 2016-07-14 Cambridge AS and A Level Mathematics is a revised series to ensure full syllabus coverage This coursebook has been revised and updated to ensure that it meets the requirements for the Mechanics 2 M2 unit of Cambridge AS and A Level Mathematics 9709 This revised edition adds clarifications to sections on motion of a projectile equilibrium of a rigid body and linear motion under a variable force All of the review questions have been updated to reflect changes in the style of questions asked in the course O-level Physics Complete Yearly Solutions 2012 (Yellowreef) Thomas Bond, Chris Hughes, 2013-11-22 completely covers all question types since 2000 exposes all inclusive trick questions makes available full set of all possible step by step solution approaches provides examination reports revealing common mistakes unusual wrong habits gives short side reading notes teaches easy to implement check back procedure advanced trade book complete edition eBook available Chemical Engineering License Problems and Solutions Dilip K. Das, Rajaram K. Prabhudesai, 2003-09-18 This is a review book for people planning to take the PE exam in Chemical Engineering Prepared specifically for the exam used in all 50 states It features 188 new PE problems with detailed step by step solutions The book covers all topics on the exam and includes easy to use tables charts and formulas It is an ideal desk Companion to DAS s Chemical Engineer License Review It includes sixteen chapters and a short PE sample exam as well as complete references and an index Chapters include the following topical areas material and energy balances fluid dynamics heat transfer evaporation distillation absorption leaching liq liq extraction psychrometry and humidification drying filtration thermodynamics chemical kinetics process control mass transfer and plant safety The ideal study guide this book brings all elements of professional problem solving together in one BIG BOOK Ideal desk reference Answers hundreds of the most frequently asked questions The first truly practical no nonsense problems and solution book for the difficult PE exam Full step by step solutions are included **A-level Physics Complete Yearly Solutions 2012 (Yellowreef)** Thomas Bond, Chris Hughes, 2013-11-16 completely cover all question types since 1996 expose all trick questions make available full set of all possible step by step solution approaches provide examination reports revealing common mistakes unusual wrong habits give short side reading notes teach easy to implement check back procedure Complete edition and concise edition eBooks available 5 Steps to a 5: AP Physics C 2022 Greg Jacobs, 2021-08-04 MATCHES THE LATEST EXAM Let us supplement your AP classroom experience with this easy to follow study guide The immensely popular 5 Steps to a 5 AP Physics C guide has been updated for the 2021 22 school year and now contains 3 full length practice exams that reflect the latest exam Comprehensive overview of the AP Physics 2 exam format Hundreds of practice exercises with thorough answer explanations Unique 5 steps fundamental quizzes that diagnose your areas of strength and weakness Authentic practice questions that reflect both multiple choice and free response question types just

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