

Classical Mechanics Solutions

Solution 1

Conservation of energy given by the sum of potential energy due to gravity and kinetic energy can be used to determine escape velocity. In the case of Earth along the potential is given by:

$$\phi(r) = -G \frac{M_E m}{r}$$

where m is the mass of the book. The book will escape if initial kinetic energy is high enough to overcome the potential at $r = R_E$. Thus

$$\frac{mv_E^2}{2} = G \frac{M_E m}{R_E} \text{ thus } v_E = \sqrt{\frac{2GM_E}{R_E}} = 11 \text{ km/s}$$

In the Earth-Moon case the potential is

$$\phi(r) = -G \frac{M_E m}{r} - G \frac{M_M m}{|R_{EM} - r|}$$

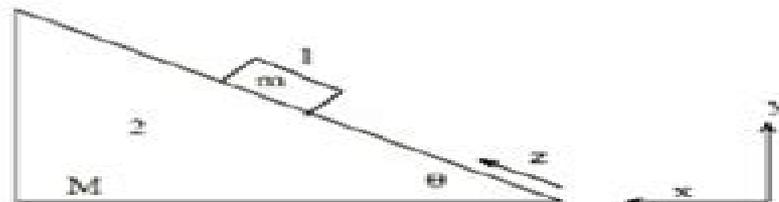
where $MM = ME$. The potential is a symmetric double-well and in order to leave the surface of the earth the kinetic energy must be high enough to overcome a saddle point right in the middle between earth and moon. Thus the condition for escape velocity is

$$\frac{mv_E^2}{2} - GM_E m \left(\frac{1}{R_E} + \frac{1}{R_{EM} - R_E} \right) = - \frac{4GM_E m}{R_{ME}}$$

This equation solved for escape velocity gives $v_E = 7.7 \text{ km/s}$.

Solution 2

Introduce the generalized coordinates as in the figure below.



The Lagrangian for this system will be given by

$$L = T_{\text{incline}} + T_m - V_{\text{incline}} - V_m \tag{1}$$

and

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John Dirk Walecka



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Solved Problems in Classical Mechanics O. L. de Lange, J. Pierrus, 2010-05-06. Apart from an introductory chapter giving a brief summary of Newtonian and Lagrangian mechanics, this book consists entirely of questions and solutions on topics in classical mechanics that will be encountered in undergraduate and graduate courses. These include one, two, and three-dimensional motion, linear and nonlinear oscillations, energy potentials, momentum, and angular momentum, spherically symmetric potentials, multi-particle systems, rigid bodies, translation and rotation of the reference frame, the relativity principle, and some of its consequences. The solutions are followed by a set of comments intended to stimulate inductive reasoning and provide additional information of interest. Both analytical and numerical computer techniques are used to obtain and analyze solutions. The computer calculations use Mathematica version 7, and the relevant code is given in the text. It includes use of the interactive Manipulate function, which enables one to observe simulated motion on a computer screen and to study the effects of changing parameters. The book will be useful to students and lecturers in undergraduate and graduate courses on classical mechanics and students and lecturers in courses in computational physics.

Solution Manual for Classical Mechanics and Electrodynamics Jon Magne Leinaas, 2019. *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 problem-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. *Analytical Mechanics*

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