

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

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

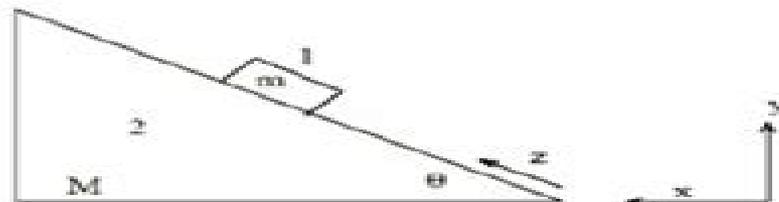
where $MM = ME$. The potential is a symmetric double-well and in order to leave the surface of the earth the kinetic energy must be high enough to overcome a saddle point right in the middle between earth and moon. Thus the condition for escape velocity is

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

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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Kenneth S. Pitzer



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Introduction To Classical Mechanics: Solutions To Problems John Dirk Walecka, 2020-08-24 The textbook Introduction to Classical Mechanics aims to provide a clear and concise set of lectures that take one from the introduction and application of Newton's laws up to Hamilton's principle of stationary action and the lagrangian mechanics of continuous systems An extensive set of accessible problems enhances and extends the coverage It serves as a prequel to the author's recently published book entitled Introduction to Electricity and Magnetism based on an introductory course taught some time ago at Stanford with over 400 students enrolled Both lectures assume a good concurrent course in calculus and familiarity with basic concepts in physics the development is otherwise self contained As an aid for teaching and learning and as was previously done with the publication of Introduction to Electricity and Magnetism Solutions to Problems this additional book provides the solutions to the problems in the text Introduction to Classical Mechanics

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Essential Classical Mechanics: Problems And Solutions Choonkyu Lee,Hyunsoo Min,2018-07-10 The authors of this book offer a very strong reason for the study of classical mechanics describing it as the base on which the whole pyramid of modern physics has been erected In order that students can gauge their understanding of the various topics many exercises are introduced Some of those should be straightforward whilst others are quite challenging The authors are to be thanked for delivering a highly readable text which should assure a continued supply of practitioners of classical mechanics and its applications Contemporary PhysicsProblem solving in physics is not simply a test of understanding but an integral part of learning This book contains complete step by

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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

Lagrangian and Hamiltonian Mechanics Melvin G. Calkin, 1999 This book contains the exercises from the classical mechanics text Lagrangian and Hamiltonian Mechanics together with their complete solutions It is intended primarily for instructors who are using Lagrangian and Hamiltonian Mechanics in their course but it may also be used together with that text by those who are studying mechanics on their own

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Encyclopaedia of Mathematics Michiel Hazewinkel,2012-12-06 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathematics It is a translation with updates and editorial comments of the Soviet Mathematical Encyclopaedia published by Soviet Encyclopaedia Publishing House in five volumes in 1977 1985 The annotated translation consists of ten volumes including a special index volume There are three kinds of articles in this ENCYCLOPAEDIA First of all there are survey type articles dealing with the various main directions in mathematics where a rather fine subdivision has been used The main requirement for these articles has been that they should give a reasonably complete up to date account of the current state of affairs in these areas and that they should be maximally accessible On the whole these articles should be understandable to mathematics students in their first specialization years to graduates from other mathematical areas and depending on the specific subject to specialists in other domains of science engineers and teachers of mathematics These articles treat their material at a fairly general level and aim to give an idea of the kind of problems techniques and concepts involved in the area in question They also contain background and motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and constructions The second kind of article of medium length contains more detailed concrete problems results and techniques

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