

Problem 1.51

[Computer] Repeat all of Problem 1.50 but using the initial value $\phi_0 = \pi/2$.

Solution

Equation (1.51) is on page 31:

$$\ddot{\phi} = -\frac{g}{R} \sin \phi \quad (1.51)$$

With $R = 5$ m and $g = 9.8$ m/s² and $\phi_0 = \pi/2$, the initial value problem to solve is

$$\ddot{\phi} = -\frac{9.8}{5} \sin \phi, \quad \phi(0) = \frac{\pi}{2}, \quad \phi'(0) = 0$$

$$\ddot{\phi} = -1.96 \sin \phi, \quad \phi(0) = \frac{\pi}{2}, \quad \phi'(0) = 0.$$

Note that $\phi(0) = \pi/2$ is the angle at $t = 0$, and $\phi'(0) = 0$ indicates that the particle starts from rest. To numerically solve this, type

$$s = \text{NDSolve}\left[\left\{\phi''[t] == -1.96 \sin[\phi[t]], \phi[0] == \frac{\pi}{2}, \phi'[0] == 0\right\}, \phi, \{t, 0, 21\}\right]$$

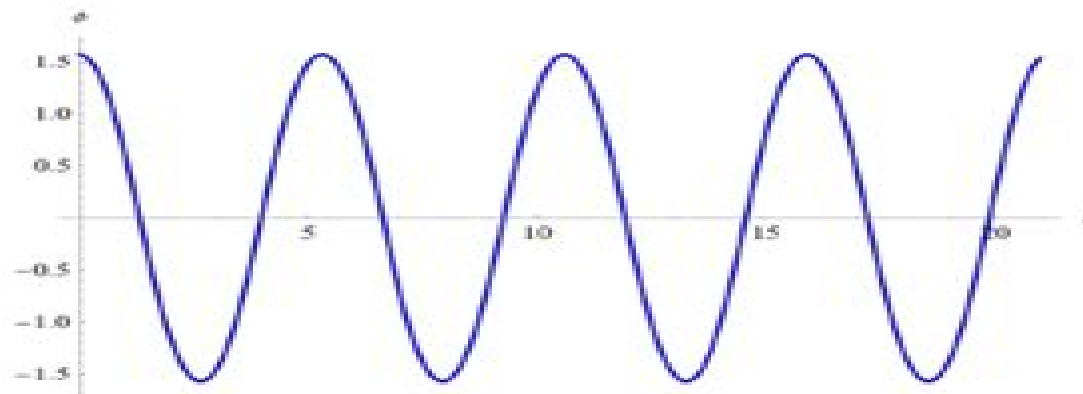
into Mathematica and press Shift+Enter. The output below is given as a result.

$$\left\{\left\{\phi \rightarrow \text{InterpolatingFunction}[\right]\right\}\right\}$$

In order to plot this function, type

$$\text{Plot}\left[\text{Evaluate}[\phi[t] /. s], \{t, 0, 21\}, \text{PlotRange} \rightarrow \text{All}, \text{AxesLabel} \rightarrow \{t, \phi\}, \text{PlotStyle} \rightarrow \text{Blue}\right]$$

into Mathematica and press Shift+Enter to obtain the following graph.



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**Nicolaie Dan Cristescu, Eduard-Marius
Craciun, Eugen Soós**



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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 Physics Problem solving in physics is not simply a test of understanding but an integral part of learning. This

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Extremum Principles in Macroscopic Systems Stanislaw Sieniutycz, Henrik Farkas, 2010-07-07 Recent years have seen a growing trend to derive models of macroscopic phenomena encountered in the fields of engineering physics chemistry ecology self organisation theory and econophysics from various variational or extremum principles Through the link between the integral extremum of a functional and the local extremum of a function explicit for example in the Pontryagin's maximum principle variational and extremum principles are mutually related Thus it makes sense to consider them within a common context The main goal of Variational and Extremum Principles in Macroscopic Systems is to collect various mathematical formulations and examples of physical reasoning that involve both basic theoretical aspects and applications of variational and extremum approaches to systems of the macroscopic world The first part of the book is focused on the theory whereas the second focuses on applications The unifying variational approach is used to derive the balance or conservation equations phenomenological equations linking fluxes and forces equations of change for processes with coupled transfer of energy and substance and optimal conditions for energy management A unique multidisciplinary synthesis of variational and extremum principles in theory and application A comprehensive review of current and past achievements in variational formulations for macroscopic processes Uses Lagrangian and Hamiltonian formalisms as a basis for the exposition of novel approaches to transfer and conversion of thermal solar and chemical energy

Fracture Mechanics of Concrete Structures Z.P.

Bazant, 1992-05-14 This conference is the first in a series of conferences dedicated to Fracture Mechanics of Concrete Structures Due to the recent explosion of interest in research on fracture in concrete the conference has brought together the world's leading researchers in fracture of concrete and this book contains the proceedings

Applied Mechanics Reviews, 1970

Conformable Dynamic Equations on Time Scales Douglas R. Anderson, Svetlin G. Georgiev, 2020-08-29 The concept of derivatives of non integer order known as fractional derivatives first appeared in the letter between L'Hopital and Leibniz in which the question of a half order derivative was posed Since then many formulations of fractional derivatives have appeared Recently a new definition of fractional derivative called the fractional conformable derivative has been introduced This new fractional derivative is compatible with the classical derivative and it has attracted attention in areas as diverse as mechanics electronics and anomalous diffusion Conformable Dynamic Equations on Time Scales is devoted to the qualitative theory of conformable dynamic equations on time scales This book summarizes the most recent contributions in this area and vastly expands on them to conceive of a comprehensive theory developed exclusively for this book Except for a few sections in Chapter 1 the results here are presented for the first time As a result the book is intended for researchers who work on dynamic calculus on time scales and its applications Features Can be used as a textbook at the graduate level as well as a reference book for several disciplines Suitable for an audience of specialists such as mathematicians physicists engineers and biologists Contains a new definition of fractional derivative About the Authors Douglas R Anderson is professor and chair of the mathematics department at Concordia College Moorhead His research areas of interest include dynamic equations on

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This book examines the experimental and theoretical aspects of bifurcation analysis as applied to geomechanics Coverage includes basic continuum mechanics for dry and fluid unfiltrated porous media bifurcation and stability analyses applied to layered geological media and granular materials and theories for generalized continua as applied to materials with

microstructure and in relation to strain localization phenomena **Mechanics of Elastic Composites** Nicolaie Dan Cristescu,Eduard-Marius Craciun,Eugen Soós,2003-09-15 This is a comprehensive reader friendly treatment of the theory behind modern elastic composite materials The treatment includes recently developed results and methods drawn from research papers published in Eastern Europe that until now were unavailable in many western countries Among the book's many notable features is the inclusion of more than 400 problems many of which are solved at the end of the book Mechanics of Elastic Composites is an outstanding textbook for graduate level course work and a valuable reference for engineers and researchers Developed over many years by leading experts in the field this book will remain an important contribution to the

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Physics. An introduction Francisco J. Tapiador, Physics

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