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.

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

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

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

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

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

$$\mathbf{a} = \mathtt{NDSolve} \bigg[\left\{ \phi''[\mathtt{t}] == -1.96 \sin[\phi[\mathtt{t}]], \; \phi[0] == \frac{\pi}{2}, \; \phi'[0] == 0 \right\}, \phi, \{\mathtt{t}, 0, 21\} \bigg]$$

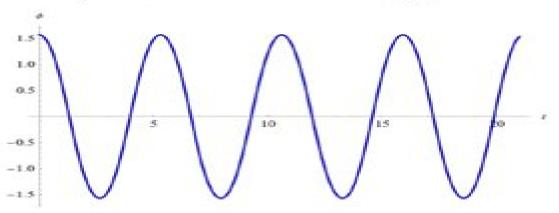
into Mathematica and press Shift+Enter. The output below is given as a result.

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

In order to plot this function, type

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

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



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K Likharev

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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 Introduction to Classical Mechanics David Morin, 2008 **Solved Problems in Classical Mechanics** detailed solutions 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 Classical Mechanics, Volume 2 K Likharev, 2018-04-30

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Strauch, 2009-06-07 This upper level undergraduate and beginning graduate textbook primarily covers the theory and application of Newtonian and Lagrangian but also of Hamiltonian mechanics In addition included are elements of continuum mechanics and the accompanying classical field theory wherein four vector notation is introduced without explicit reference to special relativity The author's writing style attempts to ease students through the primary and secondary results thus building a solid foundation for understanding applications Numerous examples illustrate the material and often present alternative approaches to the final results Analytical Problems in Classical Mechanics Prathapan K., 2018-12-05 The book is meant for the students both graduate and postgraduate to understand the application of various formulations of classical mechanics and equip them for solving mechanical problems Theory notes are given at the beginning of each chapter This book contains problems of various difficulty levels Most of the problems are discussed in detail for understanding of the applications of various formulations Certain number of problems are discussed in all formulations which will help the reader to make a comparison between different formulations A large number of problems are selected from various university examinations as well as from competitive examinations like NET JEST GATE and Civil Services Practice problems are also given at the end of each chapter Consequently this book will also be helpful to the students preparing for such examinations Problems and Solutions on Mechanics Yung-Kuo Lim, 1994 **Problems in Classical Mechanics** L. N. Katkar, 2014

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