

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

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

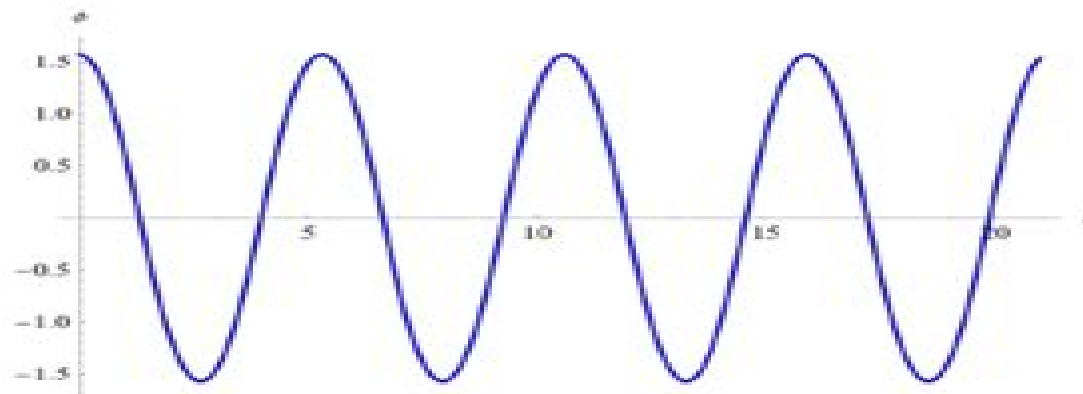
into Mathematica and press Shift+Enter. The output below is given as a result.

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

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.



Taylor Classical Mechanics Solutions Chapter 5

Francisco J. Tapiador



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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.

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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

time scales and Ulam type stability of difference and dynamic equations He is also active in investigating the existence of solutions for boundary value problems Svetlin G Georgiev is currently professor at Sorbonne University Paris France and works in various areas of mathematics He currently focuses on harmonic analysis partial differential equations ordinary differential equations Clifford and quaternion analysis dynamic calculus on time scales and integral equations **Quantum Mechanics and Quantum Information** Moses Fayngold,Vadim Fayngold,2013-08-14 Alongside a thorough definition of basic concepts and their interrelations backed by numerous examples this textbook features a rare discussion of quantum mechanics and information theory combined in one text It deals with important topics hardly found in regular textbooks including the Robertson Schrodinger relation incompatibility between angle and angular momentum dispersed indeterminacy interaction free measurements submissive quantum mechanics and many others With its in depth discussion of key concepts complete with problems and exercises this book is poised to become the standard textbook for advanced undergraduate and beginning graduate quantum mechanics courses and an essential reference for physics students and physics professionals

Mechanics Of Composite Materials Robert M. Jones,2018-10-08 This book balances introduction to the basic concepts of the mechanical behavior of composite materials and laminated composite structures It covers topics from micromechanics and macromechanics to lamination theory and plate bending buckling and vibration clarifying the physical significance of composite materials In addition to the materials covered in the first edition this book includes more theory experiment comparisons and updated information on the design of composite materials *Advanced Mechanics of Materials and Applied Elasticity* Anthony E. Armenàkas,2005-08-19 This book presents both differential equation and integral formulations of boundary value problems for computing the stress and displacement fields of solid bodies at two levels of approximation isotropic linear theory of elasticity as well as theories of mechanics of materials Moreover the book applies these formulations to practical solutions in detailed easy to follow examples Advanced Mechanics of Materials and Applied Elasticity presents modern and classical methods of analysis in current notation and in the context of current practices The author's well balanced choice of topics clear and direct presentation and emphasis on the integration of sophisticated mathematics with practical examples offer students in civil mechanical and aerospace engineering an unparalleled guide and reference for courses in advanced mechanics of materials stress analysis elasticity and energy methods in structural analysis

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The Mathematical-Function Computation Handbook Nelson H.F. Beebe, 2017-08-20 This highly comprehensive handbook provides a substantial advance in the computation of elementary and special functions of mathematics extending the function coverage of major programming languages well beyond their international standards including full support for decimal floating point arithmetic Written with clarity and focusing on the C language the work pays extensive attention to little understood aspects of floating point and integer arithmetic and to software portability as well as to important historical architectures It extends support to a future 256 bit floating point format offering 70 decimal digits of precision Select Topics and Features references an exceptionally useful author maintained MathCW website containing source code for the book's software compiled libraries for numerous systems pre built C compilers and other related materials offers a unique approach to covering mathematical function computation using decimal arithmetic provides extremely versatile appendices for interfaces to numerous other languages Ada C C Fortran Java and Pascal presupposes only basic familiarity with computer programming in a common language as well as early level algebra supplies a library that readily adapts for existing scripting languages with minimal effort supports both binary and decimal arithmetic in up to 10 different floating point formats covers a significant portion with highly accurate implementations of the U S National Institute of Standards and Technology's 10 year project to codify mathematical functions This highly practical text reference is an invaluable tool for advanced undergraduates recording many lessons of the intermingled history of computer hardware and software numerical algorithms and mathematics In addition professional numerical analysts and others will find the handbook of real interest and utility because it builds on research by the mathematical software community over the last four decades

Physics. An introduction Francisco J. Tapiador, Physics An

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Probabilistic Mechanics of Quasibrittle Structures Zdenek P. Bazant, Jia-Liang Le, 2017-05-25 Quasibrittle or brittle heterogeneous materials are becoming increasingly important for modern engineering They include concretes rocks fiber composites tough ceramics sea ice bone wood stiff soils rigid foams glass dental and biomaterials as well as all brittle materials on the micro or nano scale Their salient feature is that the fracture process zone size is non negligible compared to the structural dimensions This causes intricate energetic and statistical size effects and leads to size dependent probability distribution of strength transitional between Gaussian and Weibullian The ensuing difficult challenges for safe design are vanquished in this book which features a rigorous theory with detailed derivations yet no superfluous mathematical sophistication extensive experimental verifications and realistic approximations for design A wide range of subjects is covered including probabilistic fracture kinetics at nanoscale multiscale transition statistics of structural strength and lifetime size effect reliability indices safety factors and ramification to gate dielectrics breakdown

Solid-State Physics, Fluidics, and Analytical Techniques in Micro- and Nanotechnology Marc J. Madou, 2011-06-13 Providing a clear theoretical understanding of MEMS and NEMS Solid State Physics Fluidics and Analytical Techniques in Micro and Nanotechnology focuses on nanotechnology and the science behind it including solid state physics It provides a clear understanding of the electronic mechanical and optical properties of solids relied on in integrated circuits ICs MEMS and NEMS After exploring the rise of Si MEMS and NEMS in a historical context the text discusses crystallography quantum mechanics the band theory of solids and the silicon single crystal It concludes with coverage of photonics the quantum hall effect and superconductivity Fully illustrated in color the text offers end of chapter problems worked examples extensive references and a comprehensive glossary of terms Topics include Crystallography and the crystalline materials used in many semiconductor devices Quantum mechanics the band theory of solids and the relevance of quantum mechanics in the context of ICs and NEMS Single crystal Si properties that conspire to make Si so important Optical properties of bulk 3D metals insulators and semiconductors Effects of electron and photon confinement in lower dimensional structures How evanescent fields on metal surfaces enable

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