

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

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

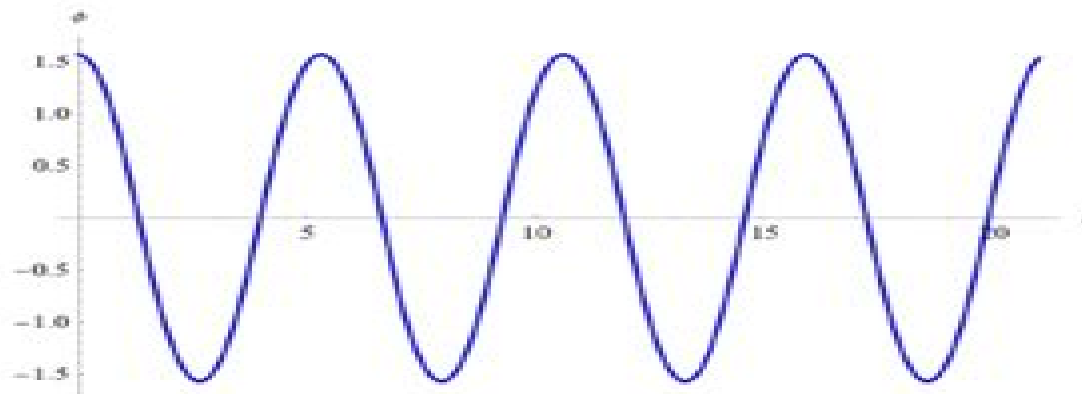
into Mathematica and press Shift+Enter. The output below is given as a result.

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

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.



Mechanics Taylor Solutions

**Alexander H-d Cheng, Ching-shyang
Chen, Andreas Karageorghis**



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Classical Mechanics Student Solutions Manual John R Taylor, Jeff Adams, Greg Francis, 2020-07-10 This is the authorized Student Solutions Manual for John R Taylor's internationally best selling textbook Classical Mechanics In response to popular demand University Science Books is delighted to announce the one and only authorized Student Solutions Manual for John R Taylor's internationally best selling textbook Classical Mechanics This splendid little manual by the textbook's own author restates the odd numbered problems from the book and the provides crystal clear detailed solutions Of course the author strongly recommends that students avoid sneaking a peek at these solutions until after attempting to solve the problems on their own But for those who put in the effort this manual will be an invaluable study aid to help students who take a wrong turn who can't go any further on their own or who simply wish to check their work Now available in print and ebook formats [Solutions of the exercises in \[H.M.\] Taylor's Euclid ... books i-iv \(vi-xi\).](#) William

Wilberforce Taylor, 1897 **Solutions Manual for Engineering Solid Mechanics** Steven Strauss, Ragab, 1998-12

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Lu, Huaning Wang, Luqing Zhang, 2025-03-03 This book covers the mechanical problems of tunnels in traffic hydraulic and mining engineering By extending the complex variable method in mechanical analysis it proposes accurate analytical solutions for tunnels The solutions are further applied to the back analysis of tunnels hole shape optimization support design and estimation of tunnel stability The considered rock characteristics involve elasticity elastoplasticity viscoelasticity and anisotropy and various geometric conditions are included such as circular noncircular single multiple tunnels with without support at deep shallow depths Some original achievements are provided including new mapping functions for complex regions precise determination of the noncircular plastic zone around single twin tunnels and related elastoplastic solutions and quantitative analysis of the interaction between rock and the support which are new developments of theory and method in rock mechanics The proposed analytical solutions are reliable tools to initially estimate the design parameters and achieve

optimal design providing guidance in the conceptual stage of the design process They can clearly reveal the influences of parameters in functional form and provide a benchmark against which the overall correctness of numerical analyses can be assessed This book summarizes the author s research achievements over more than 20 years It is a valuable reference for professionals working in geotechnical engineering

Geotechnical Problems and Solutions Buddhima Indraratna,Ana Heitor,Jayan Vinod,2020-12-27 This book covers problems and their solution of a wide range of geotechnical topics Every chapter starts with a summary of key concepts and theory followed by worked out examples and ends with a short list of key references It presents a unique collection of step by step solutions from basic to more complex problems in various topics of geotechnical engineering including fundamental topics such as effective stress permeability elastic deformation shear strength and critical state together with more applied topics such retaining structures and dams excavation and tunnels pavement infrastructure unsaturated soil mechanics marine works ground monitoring This book aims to provide students undergraduates and postgraduates and practitioners alike a reference guide on how to solve typical geotechnical problems Features Guide for solving typical geotechnical problems complementing geotechnical textbooks Reference guide for practitioners to assist in determining solutions to complex geotechnical problems via simple methods

Separation of Variables and Exact Solutions to Nonlinear PDEs Andrei D. Polyanin,Alexei I. Zhurov,2021-09-19 Separation of Variables and Exact Solutions to Nonlinear PDEs is devoted to describing and applying methods of generalized and functional separation of variables used to find exact solutions of nonlinear partial differential equations PDEs It also presents the direct method of symmetry reductions and its more general version In addition the authors describe the differential constraint method which generalizes many other exact methods The presentation involves numerous examples of utilizing the methods to find exact solutions to specific nonlinear equations of mathematical physics The equations of heat and mass transfer wave theory hydrodynamics nonlinear optics combustion theory chemical technology biology and other disciplines are studied Particular attention is paid to nonlinear equations of a reasonably general form that depend on one or several arbitrary functions Such equations are the most difficult to analyze Their exact solutions are of significant practical interest as they are suitable to assess the accuracy of various approximate analytical and numerical methods The book contains new material previously unpublished in monographs It is intended for a broad audience of scientists engineers instructors and students specializing in applied and computational mathematics theoretical physics mechanics control theory chemical engineering science and other disciplines Individual sections of the book and examples are suitable for lecture courses on partial differential equations equations of mathematical physics and methods of mathematical physics for delivering special courses and for practical training

An Introduction To The Method Of Fundamental Solutions Alexander H-d Cheng,Ching-shyang Chen,Andreas Karageorghis,2025-03-11 Over the past two decades the method of fundamental solutions MFS has attracted great attention and has been used extensively for the solution of scientific and engineering problems The MFS is a boundary

meshless collocation method which has evolved from the boundary element method. In it, the approximate solution is expressed as a linear combination of fundamental solutions of the operator in the governing partial differential equation. One of the main attractions of the MFS is the simplicity with which it can be applied to the solution of boundary value problems in complex geometries in two and three dimensions. The method is also known by many different names in the literature such as the charge simulation method, the de-singularization method, the virtual boundary element method, etc. Despite its effectiveness, the original version of the MFS is confined to solving boundary value problems governed by homogeneous partial differential equations. To address this limitation, we introduce various types of particular solutions to extend the method to solving general inhomogeneous boundary value problems employing the method of particular solutions. This book consists of two parts. Part I aims to provide theoretical support for beginners. In the spirit of reproducible research and to facilitate the understanding of the method and its implementation, several MATLAB codes have been included in Part II. This book is highly recommended for use by post-graduate researchers and graduate students in scientific computing and engineering.

Handbook of Exact Solutions for Ordinary Differential Equations Valentin F. Zaitsev, Andrei D. Polyanin, 2002-10-28

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Calculus: Formulations And Solutions With Python Gui-rong Liu, 2025-05-27 This comprehensive volume explores differentiation and integration, detailing their theories, concepts, and formulations. The book introduces various techniques for computing these mathematical elements for different types of functions and presents their applications. Python code is extensively used throughout the book, allowing readers to practice and interact with the concepts in real time. This hands-on approach helps in comprehending the theory, techniques, and results of computational operations in differentiation and integration. Real-world engineering problems are connected to the theoretical discussions through numerous examples. Written in Jupyter notebook format, the useful reference text offers a unified environment for theory, description, code execution, and real-time interaction, making it ideal for reading, practicing, and further exploration.

Handbook of Exact Solutions to Mathematical Equations Andrei D. Polyanin, 2024-08-26 This reference book describes the exact solutions of the following types of mathematical equations: Algebraic and Transcendental Equations, Ordinary Differential Equations, Systems of Ordinary Differential Equations, First Order Partial Differential Equations, Linear Equations and Problems of Mathematical Physics, Nonlinear Equations of Mathematical Physics, Systems of Partial Differential Equations, Integral Equations, Difference and Functional Equations, Ordinary Functional Differential Equations, Partial Functional Differential Equations. The book delves into equations that find practical applications in a wide array of natural and engineering sciences, including the theory of heat and mass transfer, wave theory, hydrodynamics, gas dynamics, combustion theory, elasticity theory,

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web standard operating procedure pre planning for and responding to chemical spills page 5 of 7 investigator general safety location ehs revision 1 0 doc active date retired date 7 2 9 if the spill involves solid granular or powdered material take care not to create dusts while scooping the material into a sealable container

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results in a potential hazard to human health the environment and or property are handled in a safe manner and properly reported they cover response cleanup and reporting for all types of spills