

A system of differential equations is given as

$$\frac{dx}{dt} = 2x - 3y - 2 \quad (1)$$

$$\frac{dy}{dt} = x + y - 1 \quad (2)$$

Given that $x = 0$ and $y = 1$ when $t = 0$, find the particular solution to the system of differential equations.

$$\frac{dy}{dt} = x + y - 1$$

$$x = \frac{dy}{dt} - y + 1 \quad (3)$$

$$\frac{dx}{dt} = \frac{d^2y}{dt^2} - \frac{dy}{dt} \quad (4)$$

Sub (3) & (4) into (1)

$$\frac{d^2y}{dt^2} - \frac{dy}{dt} = 2\left(\frac{dy}{dt} - y + 1\right) - 3y - 2$$

$$\frac{d^2y}{dt^2} - 3\frac{dy}{dt} + 5y = 0$$

Auxiliary equation,
 $m^2 - 3m + 5 = 0$

$$m = \frac{3}{2} \pm \frac{i\sqrt{11}}{2}$$

General Solution

$$y = e^{\frac{3t}{2}} \left(A \cos \frac{\sqrt{11}}{2} t + B \sin \frac{\sqrt{11}}{2} t \right)$$

Modelling With Differential Equations

Stanley M. Walas



Modelling With Differential Equations:

Modeling with Differential Equations in Chemical Engineering Stanley M. Walas, 1991 Modelling with Differential Equations in Chemical Engineering covers the modelling of rate processes of engineering in terms of differential equations While it includes the purely mathematical aspects of the solution of differential equations the main emphasis is on the derivation and solution of major equations of engineering and applied science Methods of solving differential equations by analytical and numerical means are presented in detail with many solved examples and problems for solution by the reader Emphasis is placed on numerical and computer methods of solution A key chapter in the book is devoted to the principles of mathematical modelling These principles are applied to the equations in important engineering areas The major disciplines covered are thermodynamics diffusion and mass transfer heat transfer fluid dynamics chemical reactions and automatic control These topics are of particular value to chemical engineers but also are of interest to mechanical civil and environmental engineers as well as applied scientists The material is also suitable for undergraduate and beginning graduate students as well as for review by practising engineers

Mathematical Modelling with Case Studies B. Barnes, G..R. Fulford, 2011-03-23 Focusing on growth and decay processes interacting populations and heating cooling problems Mathematical Modelling with Case Studies A Differential Equations Approach using Maple and MATLAB Second Edition presents mathematical techniques applicable to models involving differential equations that describe rates of change Although the authors

Modelling with Ordinary Differential Equations T.P. Dreyer, 2017-09-06 Modelling with Ordinary Differential Equations integrates standard material from an elementary course on ordinary differential equations with the skills of mathematical modeling in a number of diverse real world situations Each situation highlights a different aspect of the theory or modeling Carefully selected exercises and projects present excellent opportunities for tutorial sessions and self study This text reference addresses common types of first order ordinary differential equations and the basic theory of linear second order equations with constant coefficients It also explores the elementary theory of systems of differential equations Laplace transforms and numerical solutions Theorems on the existence and uniqueness of solutions are a central feature Topics such as curve fitting time delay equations and phase plane diagrams are introduced The book includes algorithms for computer programs as an integral part of the answer finding process Professionals and students in the social and biological sciences as well as those in physics and mathematics will find this text reference indispensable for self study

Modeling Differential Equations in Biology Clifford Henry Taubes, 2008-01-17 Based on a very successful one semester course taught at Harvard this text teaches students in the life sciences how to use differential equations to help their research It needs only a semester s background in calculus Ideas from linear algebra and partial differential equations that are most useful to the life sciences are introduced as needed and in the context of life science applications are drawn from real published papers It also teaches students how to recognize when differential equations can help focus research A

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Modelling with Differential Equations David N. Burghes, Morag S. Borrie, 1981 Motivated by the authors combined ability and experience this book is about the concepts of mathematical modelling with the use of differential equations as a powerful technique of mathematical analysis It is both enjoyable to read and informative The reader's mind is continually exercised by enlightenment or recollection or enquiry either something new is to be learned or something known is to be re examined It is with mathematical clarity that the authors explain the theory of ordinary differential equations and introduce their manifold applications They show a skillful and imaginative succession of applications introducing such instances as accident risk or fish population forgery detection in old masters or kidney life support machines and many others They show the influence of these mathematical probes into problems occurring in biology economics geography medicine planning psychology or sociology Partial Differential Equations in Action Sandro Salsa, 2016-10-04 The book is intended as an advanced undergraduate or first year graduate course for students from various disciplines including applied mathematics physics and engineering It has evolved from courses offered on partial differential equations PDEs over the last several years at the

Politecnico di Milano These courses had a twofold purpose on the one hand to teach students to appreciate the interplay between theory and modeling in problems arising in the applied sciences and on the other to provide them with a solid theoretical background in numerical methods such as finite elements Accordingly this textbook is divided into two parts The first part chapters 2 to 5 is more elementary in nature and focuses on developing and studying basic problems from the macro areas of diffusion propagation and transport waves and vibrations In turn the second part chapters 6 to 11 concentrates on the development of Hilbert spaces methods for the variational formulation and the analysis of mainly linear boundary and initial boundary value problems The third edition contains a few text and formulas revisions and new exercises

Nonstandard Finite Difference Models Of Differential Equations Ronald E Mickens,1993-12-23 This book provides a clear summary of the work of the author on the construction of nonstandard finite difference schemes for the numerical integration of differential equations The major thrust of the book is to show that discrete models of differential equations exist such that the elementary types of numerical instabilities do not occur A consequence of this result is that in general bigger step sizes can often be used in actual calculations and or finite difference schemes can be constructed that are conditionally stable in many instances whereas in using standard techniques no such schemes exist The theoretical basis of this work is centered on the concepts of exact and best finite difference schemes In addition a set of rules is given for the discrete modeling of derivatives and nonlinear expressions that occur in differential equations These rules often lead to a unique nonstandard finite difference model for a given differential equation

A First Course in Differential Equations, Modeling, and Simulation Carlos A. Smith, Scott W. Campbell, 2011-05-18 Emphasizing a practical approach for engineers and scientists A First Course in Differential Equations Modeling and Simulation avoids overly theoretical explanations and shows readers how differential equations arise from applying basic physical principles and experimental observations to engineering systems It also covers classical methods for

Methods of Mathematical Modelling Thomas Witelski, Mark Bowen, 2015-09-18 This book presents mathematical modelling and the integrated process of formulating sets of equations to describe real world problems It describes methods for obtaining solutions of challenging differential equations stemming from problems in areas such as chemical reactions population dynamics mechanical systems and fluid mechanics Chapters 1 to 4 cover essential topics in ordinary differential equations transport equations and the calculus of variations that are important for formulating models Chapters 5 to 11 then develop more advanced techniques including similarity solutions matched asymptotic expansions multiple scale analysis long wave models and fast slow dynamical systems Methods of Mathematical Modelling will be useful for advanced undergraduate or beginning graduate students in applied mathematics engineering and other applied sciences

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Differential Equations

Paul W. Davis,1999 For undergraduate engineering and science courses in Differential Equations This progressive text on differential equations utilizes MATLAB's state of the art computational and graphical tools right from the start to help students probe a variety of mathematical models Ideas are examined from four perspectives geometric analytic numeric and physical Students are encouraged to develop problem solving skills and independent judgment as they derive models select approaches to their analysis and find answers to the original physical questions Both qualitative and algebraic tools are stressed Balancing the qualitative with the algebraic the text exposes students in the first two chapters to fundamental qualitative ideas such as direction fields steady states stability etc Then graphical interpretation analytic solutions and numerical tools are developed to allow students to examine nonlinear problems and systems or equations This is done in conjunction with covering the most important traditional analytic methods Many exercises are posed from the physical perspective of the models under study in order to nurture students ability to easily shift between theoretical m

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Modeling with Itô Stochastic Differential Equations E. Allen,2007-03-09 This book explains a procedure for constructing realistic stochastic differential equation models for randomly varying systems in biology chemistry physics engineering and finance Introductory chapters present the fundamental concepts of random variables stochastic processes stochastic integration and stochastic differential equations These concepts are explained in a Hilbert space setting which unifies and simplifies the presentation

Modeling and Differential Equations in Biology T. A. Burton,2017-10-05 First published in 1980 CRC Press is an imprint of Taylor Francis

Differential Equations As Models In Science And Engineering Gregory Richard Baker,2016-07-25 This textbook develops a coherent view of differential equations by progressing through a

series of typical examples in science and engineering that arise as mathematical models All steps of the modeling process are covered formulation of a mathematical model the development and use of mathematical concepts that lead to constructive solutions validation of the solutions and consideration of the consequences The volume engages students in thinking mathematically while emphasizing the power and relevance of mathematics in science and engineering There are just a few guidelines that bring coherence to the construction of solutions as the book progresses through ordinary to partial differential equations using examples from mixing electric circuits chemical reactions and transport processes among others The development of differential equations as mathematical models and the construction of their solution is placed center stage in this volume

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