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 solut 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

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

Modelling With Differential And Difference Equations

Saber Elaydi

Modelling With Differential And Difference Equations:

Modelling with Differential and Difference Equations Glenn Fulford,Peter Forrester,Arthur Jones,1997-06-12 Any student wishing to solve problems via mathematical modelling will find that this book provides an excellent introduction to the subject **Introduction to Differential and Difference Equations through Modeling** William P. Fox,Robert E. Burks, Jr.,2025-07-09 This book presents an opportunity to learn difference and differential equations through a modeling first approach The text is meant as an introduction to those equations and not as a text only for modeling courses No previous exposure to these equations is expected Modeling in Introduction to Differential and Difference Equations through Modeling is presented as the vehicle for learning difference and differential equations Although the topics in difference and differential equations are consistent with those in other textbooks this approach differs The presentation starts with a model or several models and offers the solution with minor discussions Then methods to obtain those solutions are presented and show these same models and others again in more detail This approach is designed to focus on the use of difference and differential equations to solve real world problems and to learn not only these primary topics but how to apply these through modeling The authors begin with a review of matrix algebra then an introduction to modeling The text progresses to discrete dynamical systems and then to the standard organization of most differential equation texts making the alignment with a current syllabus easier Technology is a significant modeling component Excel Python and Maple are presented as methods to solving the models This material has been class tested at the US Military Academy at West Point Marian University the College of William Mary and the Naval Postgraduate School with great success **Modelling with Differential and Difference Equations** P. Forrester,1996 **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

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topics in difference and differential equations are consistent with those in other textbooks this approach differs The presentation starts with a model or several models and presents the solution with minor discussions Then methods to obtain those solutions are presented and show these same models and others again in more detail This approach is designed to focus on the use of difference and differential equations to solve real world problems and to learn not only these primary topics but how to apply these through modeling The authors begin with a review of matrix algebra then an introduction to modelling The text progresses to Discrete Dynamical Systems and then to the standard organization of most DE texts making the alignment with a current syllabus easier Technology is a significant modeling component EXCEL Python and MAPLE are presented as methods to solve the models The material has been class tested at The US Military Academy at West Point Marion University and William and Mary and The Naval Postgraduate School with great success Provided by publisher

Differential Equations Courtney Brown,2007-05-18 Differential Equations A Modeling Approach explains the mathematics and theory of differential equations Graphical methods of analysis are emphasized over formal proofs making the text even more accessible for newcomers to the subject matter **Difference and Differential Equations with Applications in Queueing Theory** Aliakbar Montazer Haghighi,Dimitar P. Mishev,2013-05-28 A Useful Guide to the Interrelated Areas of Differential Equations Difference Equations and Queueing Models Difference and Differential Equations with Applications in Queueing Theory presents the unique connections between the methods and applications of differential equations difference equations and Markovian queues Featuring a comprehensive collection of topics that are used in stochastic processes particularly in queueing theory the book thoroughly discusses the relationship to systems of linear differential difference equations The book demonstrates the applicability that queueing theory has in a variety of fields including telecommunications traffic engineering computing and the design of factories shops offices and hospitals Along with the needed prerequisite fundamentals in probability statistics and Laplace transform Difference and Differential Equations with Applications in Queueing Theory provides A discussion on splitting delayed service and delayed feedback for single server multiple server parallel and series queue models Applications in queue models whose solutions require differential difference equations and generating function methods Exercises at the end of each chapter along with select answers The book is an excellent resource for researchers and practitioners in applied mathematics operations research engineering and industrial engineering as well as a useful text for upper undergraduate and graduate level courses in applied mathematics differential and difference equations queueing theory probability and stochastic processes *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

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Difference Equations, Second Edition R Mickens,1991-01-01 In recent years the study of difference equations has acquired a new significance due in large part to their use in the formulation and analysis of discrete time systems the numerical integration of differential equations by finite difference schemes and the study of deterministic chaos The second edition of Difference Equations Theory and Applications provides a thorough listing of all major theorems along with proofs The text treats the case of first order difference equations in detail using both analytical and geometrical methods Both ordinary and partial difference equations are considered along with a variety of special nonlinear forms for which exact solutions can be determined Numerous worked examples and problems allow readers to fully understand the material in the text They also give possible generalization of the theorems and application models The text s expanded coverage of application helps readers appreciate the benefits of using difference equations in the modeling and analysis of realistic problems from a broad range of fields The second edition presents analyzes and discusses a large number of applications from the mathematical biological physical and social sciences Discussions on perturbation methods and difference equation models of differential equation models of differential equations represent contributions by the author to the research literature Reference to original literature show how the elementary models of the book can be extended to more realistic situations Difference Equations Second Edition gives readers a background in discrete mathematics that many workers in science oriented industries need as part of their general scientific knowledge With its minimal mathematical background requirements of general algebra and calculus this unique volume will be used extensively by students and professional in science and technology in areas such as applied mathematics control theory population science economics and electronic circuits especially discrete signal processing *Mathematical Modelling with Differential Equations* Ronald E. Mickens,2022-05-23 Mathematical Modelling with Differential Equations aims to introduce various strategies for modelling systems using differential equations Some of these methodologies are elementary and quite direct to comprehend and apply while others are complex in nature and require thoughtful deep contemplation Many topics discussed in the chapter do not appear in any of the standard textbooks and this provides users an opportunity to consider a more general set of interesting systems that can be modelled For example the book investigates the evolution of a toy universe discusses why alternate futures exists in classical physics constructs approximate solutions to the famous Thomas Fermi equation using only algebra

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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 **Differential/Difference Equations** Ioannis Dassios,Omar Bazighifan,Osama Moaaz,2021-11-30 The study of oscillatory phenomena is an important part of the theory of differential equations Oscillations naturally occur in virtually every area of applied science including e g mechanics electrical radio engineering and vibrotechnics This Special Issue includes 19 high quality papers with original research results in theoretical research and recent progress in the study of applied problems in science and technology This Special Issue brought together mathematicians with physicists engineers as well as other scientists Topics covered in this issue Oscillation theory Differential difference equations Partial differential equations Dynamical systems Fractional calculus Delays Mathematical modeling and oscillations **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 course taught with this book can replace the standard course in multivariable calculus that is more usually suited to engineers and physicists Differential-Difference Equations Bellman,1963-01-01 Differential Difference Equations **Mathematical Modeling** J. N. Kapur,2023-02-15 This book can be used in courses on mathematical modeling at the senior undergraduate or graduate level or used as a reference for in service scientists and engineers The book provides an overview of mathematical modeling through a panoramic view of applications of mathematics in science and technology In each chapter mathematical models are chosen from the physical biological social economic management and engineering sciences The models deal with different concepts but have a

common mathematical structure and bring out the unifying influence of mathematical modeling in different disciplines Features Provides a balance between theory and applications Features models from the physical biological social economic management and engineering sciences   *An Introduction to Difference Equations* Saber Elaydi,2005-12-15 In contemplating the third edition I have had multiple objectives to achieve The rst and foremost important objective is to maintain the cessibility and readability of the book to a broad readership with varying mathematical backgrounds and sophistication More proofs more graphs more explanations and more applications are provided in this edition The second objective is to update the contents of the book so that the reader stays abreast of new developments in this vital area of mathematics Recent results on local and global stability of one dimensional maps are included in Chapters 1 4 and Appendices A and C An extension of the Hartman Grobman Theorem to noninvertible maps is stated in Appendix D A whole new section on various notions of the asymptoticity of solutions and a recent extension of Perron s Second Theorem are added to Chapter 8 In Appendix E a detailed proof of the Levin May Theorem is presented In Chapters 4 and 5 the reader will nd the latest results on the larval pupal adult our beetle model The third and nal objective is to better serve the broad readership of this book by including most but certainly not all of the research areas in di erence equations As more work is being published in the Journal of Di erence Equations and Applications and elsewhere it became apparent that a whole chapter needed to be dedicated to this enterprise With the prodding and encouragement of Gerry Ladas the new Chapter 5 was born   *Mathematical Modeling* Sandip Banerjee,2021-12-05 Mathematical Modeling Models Analysis and Applications Second Edition introduces models of both discrete and continuous systems This book is aimed at newcomers who desires to learn mathematical modeling especially students taking a first course in the subject Beginning with the step by step guidance of model formulation this book equips the reader about modeling with difference equations discrete models ODE s PDE s delay and stochastic differential equations continuous models This book provides interdisciplinary and integrative overview of mathematical modeling making it a complete textbook for a wide audience A unique feature of the book is the breadth of coverage of different examples on mathematical modelling which include population models economic models arms race models combat models learning model alcohol dynamics model carbon dating drug distribution models mechanical oscillation models epidemic models tumor models traffic flow models crime flow models spatial models football team performance model breathing model two neuron system model zombie model and model on love affairs Common themes such as equilibrium points stability phase plane analysis bifurcations limit cycles period doubling and chaos run through several chapters and their interpretations in the context of the model have been highlighted In chapter 3 a section on estimation of system parameters with real life data for model validation has also been discussed Features Covers discrete continuous spatial delayed and stochastic models Over 250 illustrations 300 examples and exercises with complete solutions Incorporates MATHEMATICA and MATLAB each chapter contains Mathematica and Matlab codes used to display numerical results

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