

(b) We can solve the differential equation analytically. We separate variables and integrate. We get

$$\int (y-2)(y+1) dy = \int dt$$

$$\frac{y^3}{3} - \frac{y^2}{2} - 2y = t + c,$$

where c is a constant. Using $y(0) = 1/2$, we get $c = 13/12$. Therefore the solution to the initial-value problem is the unique solution $y(t)$ that satisfies the equation

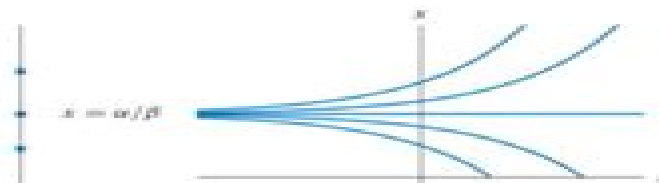
$$4y^3 - 6y^2 - 24y - 24t + 13 = 0$$

with $-1 < y(t) < 2$. It is not easy to solve this equation explicitly. However, in order to obtain the domain of this solution, we substitute $y = -1$ and $y = 2$ into the equation, and we get $t = -9/8$ and $t = 9/8$ respectively.

45. One assumption of the model is that, if no people are present, then the time between trains decreases at a constant rate. Hence the term $-\alpha$ represents this assumption. The parameter α should be positive, so that $-\alpha$ makes a negative contribution to dx/dt .

The term βx represents the effect of the passengers. The parameter β should be positive so that βx contributes positively to dx/dt .

46. (a) Solving $\beta x - \alpha = 0$, we see that the equilibrium point is $x = \alpha/\beta$.
 (b) Since $f(x) = \beta x - \alpha$ is positive for $x > \alpha/\beta$ and negative for $x < \alpha/\beta$, the equilibrium point is a source.
 (c) and (d)



- (e) We separate the variables and integrate to obtain

$$\int \frac{dx}{\beta x - \alpha} = \int dt$$

$$\frac{1}{\beta} \ln |\beta x - \alpha| = t + c,$$

which yields the general solution $x(t) = \alpha/\beta + ke^{\beta t}$, where k is any constant.

47. Note that the only equilibrium point is a source. If the initial gap between trains is too large, then x will increase without bound. If it is too small, x will decrease to zero. When $x = 0$, the two trains are next to each other, and they will stay together since $x < 0$ is not physically possible in this problem.

Differential Equations 4th Edition Solutions

John Guckenheimer, Philip Holmes



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Differential Equation Solutions with MATLAB® Dingyü Xue, 2020-04-06 This book focuses the solutions of differential equations with MATLAB Analytical solutions of differential equations are explored first followed by the numerical solutions of different types of ordinary differential equations ODEs as well as the universal block diagram based schemes for ODEs Boundary value ODEs fractional order ODEs and partial differential equations are also discussed Nonlinear Ordinary Differential Equations: Problems and Solutions Dominic Jordan, Peter Smith, 2007-08-23 An ideal companion to the new 4th Edition of Nonlinear Ordinary Differential Equations by Jordan and Smith OUP 2007 this text contains over 500 problems and fully worked solutions in nonlinear differential equations With 272 figures and diagrams subjects covered include phase diagrams in the plane classification of equilibrium points geometry of the phase plane perturbation methods forced oscillations stability Mathieu's equation Liapunov methods bifurcations and manifolds homoclinic bifurcation and Melnikov's method The problems are of variable difficulty some are routine questions others are longer and expand on concepts discussed in Nonlinear Ordinary Differential Equations 4th Edition and in most cases can be adapted for coursework or self study Both texts cover a wide variety of applications whilst keeping mathematical prerequisites to a minimum making these an ideal resource for students and lecturers in engineering mathematics and the sciences 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

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Numerical Solution of Ordinary Differential Equations Donald Greenspan, 2008-09-26 This work meets the need for an affordable textbook that helps in understanding numerical solutions of ODE Carefully structured by an experienced textbook author it provides a survey of ODE for various applications both classical and modern including such special applications as relativistic systems The examples are carefully explained and compiled into an algorithm each of which is presented independent of a specific programming language Each chapter is rounded off with exercises

Elements of Applied Bifurcation Theory Yuri Kuznetsov, 2013-03-09 The years that have passed since the publication of the first edition of this book proved that the basic principles used to select and present the material made sense The idea was to write a simple text that could serve as a serious introduction to the subject Of course the meaning of simplicity varies from person to person and from country to country The word introduction contains even more ambiguity To start reading this book only a moderate knowledge of linear algebra and calculus is required Other preliminaries qualified as elementary in modern mathematics are explicitly formulated in the book These include the Fredholm Alternative for linear systems and the multidimensional Implicit Function Theorem Using these very limited tools a framework of notions results and methods is gradually built that allows one to read and possibly write scientific papers on bifurcations of nonlinear dynamical systems Among other things progress in the sciences means that mathematical results and methods that once were new become standard and routinely used by the research and development community Hopefully this edition of the book will contribute to this process The book's structure has been kept intact Most of the changes introduced reflect recent theoretical and software developments in which the author was involved Important changes in the third edition can be summarized as follows A new section devoted to the fold flip bifurcation for maps has appeared in Chapter 9

Nonlinear Oscillations, Dynamical Systems, and Bifurcations of Vector Fields John Guckenheimer, Philip Holmes, 2013-11-21 From the reviews This book is concerned with the application of methods from dynamical systems and bifurcation theories to the study of nonlinear oscillations Chapter 1 provides a review of basic results in the theory of dynamical systems covering both ordinary differential equations and discrete mappings Chapter 2 presents 4 examples from nonlinear oscillations Chapter 3 contains a discussion of the methods of local bifurcation theory for flows and

maps including center manifolds and normal forms Chapter 4 develops analytical methods of averaging and perturbation theory Close analysis of geometrically defined two dimensional maps with complicated invariant sets is discussed in chapter 5 Chapter 6 covers global homoclinic and heteroclinic bifurcations The final chapter shows how the global bifurcations reappear in degenerate local bifurcations and ends with several more models of physical problems which display these behaviors Book Review Engineering Societies Library New York 1 An attempt to make research tools concerning strange attractors developed in the last 20 years available to applied scientists and to make clear to research mathematicians the needs in applied works Emphasis on geometric and topological solutions of differential equations Applications mainly drawn from nonlinear oscillations American Mathematical Monthly 2

Spectral Methods for Incompressible Viscous Flow Roger Peyret, 2013-03-09 The objective of this book is to provide a comprehensive discussion of Fourier and Chebyshev spectral methods for the computation of incompressible viscous flows based on the Navier Stokes equations and confidence in the numerical results the re For reasons of efficiency searchers and practitioners involved in computational fluid dynamics must be able to master the numerical methods they use Therefore in writing this book beyond the description of the algorithms I have also tried to provide information on the mathematical and computational as well as implementational characteristics of the methods The book contains three parts The first is intended to present the fundamentals of the Fourier and Chebyshev methods for the solution of differential problems The second part is entirely devoted to the solution of the Navier Stokes equations considered in vorticity streamfunction and velocity pressure formulations The third part is concerned with the solution of stiff and singular problems and with the domain decomposition method In writing this book I owe a great debt to the joint contribution of several people to whom I wish to express my deep gratitude First I express my friendly thanks to L Sirovich editor of the series Applied Mathematical Sciences who suggested that I write the book Many thanks are also addressed to my colleagues and former students who contributed to the completion of the book in various ways I am happy to thank P Bontoux O Botella J A Desideri U Ehrenstein M Y Forestier J Frohlich S

The Nonlinear Schrödinger Equation Catherine Sulem, Pierre-Louis Sulem, 2007-06-30 Filling the gap between the mathematical literature and applications to domains the authors have chosen to address the problem of wave collapse by several methods ranging from rigorous mathematical analysis to formal asymptotic expansions and numerical simulations

Trends and Perspectives in Applied Mathematics Lawrence Sirovich, 2012-12-06 This marks the 100th volume to appear in the Applied Mathematical Sciences series Partial Differential Equations by Fritz John the first volume of the series appeared in 1971 One year prior to its appearance the then mathematics editor of Springer Verlag Klaus Peters organized a meeting to look into the possibility of starting a series slanted toward applications The meeting took place in New Rochelle at the home of Fritz and Charlotte John K O Friedrichs Peter Lax Monroe Donsker Joe Keller and others from the Courant Institute previously the Institute for Mathematical Sciences were present as were Joe LaSalle and myself the two of us having traveled down from Providence for

the meeting The John home a large comfortable house especially lent itself to the informal relaxed and wide ranging discussion that ensued What emerged was a consensus that mathematical applications appeared to be poised for a period of growth and that there was a clear need for a series committed to applied mathematics The first paragraph of the editorial statement written at that time reads as follows The mathematization of all sciences the fading of traditional scientific boundaries the impact of computer technology the growing importance of mathematical computer modeling and the necessity of scientific planning all create the need both in education and research for books that are introductory to and abreast of these developments Configurational Forces as Basic Concepts of Continuum Physics Morton E.

Gurtin, 2008-01-20 For the last decade the author has been working to extend continuum mechanics to treat moving boundaries in materials focusing in particular on problems of metallurgy This monograph presents a rational treatment of the notion of configurational forces it is an effort to promote a new viewpoint Included is a presentation of configurational forces within a classical context and a discussion of their use in areas as diverse as phase transitions and fracture The work should be of interest to materials scientists mechanicians and mathematicians **Chaos, Fractals, and Noise** Andrzej

Lasota, Michael C. Mackey, 2013-11-27 The first edition of this book was originally published in 1985 under the title Probabilistic Properties of Deterministic Systems In the intervening years interest in so called chaotic systems has continued unabated but with a more thoughtful and sober eye toward applications as befits a maturing field This interest in the serious usage of the concepts and techniques of nonlinear dynamics by applied scientists has probably been spurred more by the availability of inexpensive computers than by any other factor Thus computer experiments have been prominent suggesting the wealth of phenomena that may be resident in nonlinear systems In particular they allow one to observe the interdependence between the deterministic and probabilistic properties of these systems such as the existence of invariant measures and densities statistical stability and periodicity the influence of stochastic perturbations the formation of attractors and many others The aim of the book and especially of this second edition is to present recent theoretical methods which allow one to study these effects We have taken the opportunity in this second edition to not only correct the errors of the first edition but also to add substantially new material in five sections and a new chapter *Finite Element Analysis of*

Acoustic Scattering Frank Ihlenburg, 2006-03-29 A cognitive journey towards the reliable simulation of scattering problems using finite element methods with the pre asymptotic analysis of Galerkin FEM for the Helmholtz equation with moderate and large wave number forming the core of this book Starting from the basic physical assumptions the author methodically develops both the strong and weak forms of the governing equations while the main chapter on finite element analysis is preceded by a systematic treatment of Galerkin methods for indefinite sesquilinear forms In the final chapter three dimensional computational simulations are presented and compared with experimental data The author also includes broad reference material on numerical methods for the Helmholtz equation in unbounded domains including Dirichlet to Neumann

methods absorbing boundary conditions infinite elements and the perfectly matched layer A self contained and easily readable work

Nonlinear Theory of Shallow Shells Iosif I. Vorovich, 2008-01-08 This book presents rigorous treatment of boundary value problems in nonlinear theory of shallow shells The consideration of the problems is carried out using methods of nonlinear functional analysis

Analysis and Simulation of Chaotic Systems Frank C. Hoppensteadt, 2013-03-09 Analysis and Simulation of Chaotic Systems is a text designed to be used at the graduate level in applied mathematics for students from mathematics engineering physics chemistry and biology The book can be used as a stand alone text for a full year course or it can be heavily supplemented with material of more mathematical more engineering or more scientific nature Computations and computer simulations are used throughout this text to illustrate phenomena discussed and to supply readers with probes to use on new problems

Numerical Approximation of Hyperbolic Systems of Conservation Laws Edwige Godlewski, Pierre-Arnaud Raviart, 2013-11-21 This work is devoted to the theory and approximation of nonlinear hyperbolic systems of conservation laws in one or two space variables It follows directly a previous publication on hyperbolic systems of conservation laws by the same authors and we shall make frequent references to Godlewski and Raviart 1991 hereafter noted G R though the present volume can be read independently This earlier publication apart from a first chapter especially covered the scalar case Thus we shall detail here neither the mathematical theory of multidimensional scalar conservation laws nor their approximation in the one dimensional case by finite difference conservative schemes both of which were treated in G R but we shall mostly consider systems The theory for systems is in fact much more difficult and not at all completed This explains why we shall mainly concentrate on some theoretical aspects that are needed in the applications such as the solution of the Riemann problem with occasional insights into more sophisticated problems The present book is divided into six chapters including an introductory chapter For the reader's convenience we shall resume in this Introduction the notions that are necessary for a self sufficient understanding of this book the main definitions of hyperbolicity weak solutions and entropy present the practical examples that will be thoroughly developed in the following chapters and recall the main results concerning the scalar case

Periodic Motions Miklos Farkas, 2013-03-14 The task is done The Maker rests And lo The engine turns A million years shall flow Ere round its axle shall the wheel run slow And a new cog be needed Mad 8 ch The Tragedy of Man J C W Horne's translation In this book I tried to sum up the facts and results I considered most important concerning periodic solutions of ordinary differential equations ODEs produced by this century from Henri Poincare up to the youngest mathematician appearing in the list of references I have included also some results of my own that did not find their way into monographs in the past I have done research in this direction for more than 25 years and have given graduate courses about some of the topics covered for many years at the Budapest University of Technology and also at the Universidad Central de Venezuela in Caracas I hope that people interested in differential equations and applications may use this experience Some may say that periodic solutions of ODEs has been a

closed chapter of mathematics for some time **Elements of Applied Bifurcation Theory** Yuri A. Kuznetsov, 2013-03-09

During the last few years several good textbooks on nonlinear dynamics have appeared for graduate students in applied mathematics. It seems however that the majority of such books are still too theoretically oriented and leave many practical issues unclear for people intending to apply the theory to particular research problems. This book is designed for advanced undergraduate or graduate students in mathematics who will participate in applied research. It is also addressed to professional researchers in physics, biology, engineering and economics who use dynamical systems as modeling tools in their studies. Therefore only a moderate mathematical background in geometry, linear algebra, analysis and differential equations is required. A brief summary of general mathematical terms and results that are assumed to be known in the main text appears at the end of the book. Whenever possible only elementary mathematical tools are used. For example we do not try to present normal form theory in full generality, instead developing only the portion of the technique sufficient for our purposes. The book aims to provide the student or researcher with both a solid basis in dynamical systems theory and the necessary understanding of the approaches, methods, results and terminology used in the modern applied mathematics literature. A key theme is that of topological equivalence and codimension or what one may expect to occur in the dynamics with a given number of parameters allowed to vary.

Nonlinear Problems of Elasticity Stuart Antman, 2013-03-14

The scientists of the seventeenth and eighteenth centuries led by J. Bernoulli and Euler created a coherent theory of the mechanics of strings and rods undergoing planar deformations. They introduced the basic concepts of strain, both extensional and flexural, of contact force with its components of tension and shear force and of contact couple. They extended Newton's Law of Motion for a mass point to a law valid for any deformable body. Euler formulated its independent and much subtler complement, the Angular Momentum Principle. Euler also gave effective variational characterizations of the governing equations. These scientists breathed life into the theory by proposing, formulating and solving the problems of the suspension bridge, the catenary, the elastica and the small transverse vibrations of an elastic string. The level of difficulty of some of these problems is such that even today their descriptions are seldom vouchsafed to undergraduates. The realization that such profound and beautiful results could be deduced by mathematical reasoning from fundamental physical principles furnished a significant contribution to the intellectual climate of the Age of Reason. At first those who solved these problems did not distinguish between linear and nonlinear equations and so were not intimidated by the latter. By the middle of the nineteenth century Cauchy had constructed the basic framework of three-dimensional continuum mechanics on the foundations built by his eighteenth-century predecessors.

Global Bifurcation in Variational Inequalities Vy Khoi Le, Klaus Schmitt, 2013-12-01

Bifurcation Problems for Variational Inequalities presents an up-to-date and unified treatment of bifurcation theory for variational inequalities in reflexive spaces and the use of the theory in a variety of applications such as obstacle problems, from elasticity theory, unilateral problems, torsion problems, equations from fluid mechanics and

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