



Fig. 2.6.1 Power law logistic distribution; (a) growth rate and (b) specific growth rate for various values of s

$$\frac{dy}{dx} = f(x)y + g(x)y^p \quad (2.6.7)$$

The first step in solving this type of non-linear differential equation is to convert it to a linear equation with the substitution

$$N = C^{-1/p} \quad (2.6.8)$$

Accordingly, Eq. 2.6.6 becomes

$$\frac{dC}{dt} + asC = \frac{as}{N^p} \quad (2.6.9)$$

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Peter Deuflhard, Andreas Hohmann



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Growth and Diffusion Phenomena Robert B. Banks, 1993-12-22 Diffusion and growth phenomena abound in the real world surrounding us. Some examples: growth of the world's population, growth rates of humans, public interest in news events, growth and decline of central city populations, pollution of rivers, adoption of agricultural innovations and spreading of epidemics, and migration of insects. These and numerous other phenomena are illustrations of typical growth and diffusion problems confronted in many branches of the physical, biological, and social sciences as well as in various areas of agriculture, business, education, engineering, medicine, and public health. The book presents a large number of mathematical models to provide frameworks for the analysis and display of many of these. The models developed and utilized commence with relatively simple exponential, logistic, and normal distribution functions. Considerable attention is given to time-dependent growth coefficients and carrying capacities. The topics of discrete and distributed time delays, spatial-temporal diffusion, and diffusion with reaction are examined. Throughout the book, there are a great many numerical examples. In addition, and most importantly, there are more than 50 in-depth illustrations of the application of a particular framework or model based on real-world problems. These examples provide the reader with an appreciation of the intrinsic nature of the phenomena involved. They address mainly readers from the physical, biological, and social sciences as the only mathematical background assumed is elementary calculus. Methods are developed as required, and the reader can thus acquire useful tools for planning, analyzing, designing, and evaluating studies of growth, transfer, and diffusion phenomena. The book draws on the author's own hands-on experience in problems of environmental diffusion and dispersion as well as in technology transfer and innovation diffusion.

Introduction to Partial Differential Equations Aslak Tveito, Ragnar Winther, 2008-01-21 Combining both the classical theory and numerical techniques for partial differential equations, this thoroughly modern approach shows the significance of computations in PDEs and illustrates the strong interaction between mathematical theory and the development of numerical methods. Great care has been taken throughout the book to seek a sound balance between these techniques. The authors present the material at an easy pace, and exercises ranging from the straightforward to the challenging have been included. In addition, there are some projects suggested either to refresh the student's memory of results needed in this course or to extend the theories developed in the text. Suitable for undergraduate and graduate students in mathematics and engineering.

Differential Equations and Dynamical Systems Lawrence Perko, 2013-11-21 Mathematics is playing an ever more important role in the physical and biological sciences, provoking a blurring of boundaries between scientific disciplines and a resurgence of interest in the modern as well as the classical techniques of applied mathematics. This renewal of interest, both in research and teaching, has led to the establishment of the series Texts in Applied Mathematics (TAM). The development of new courses is a natural consequence of a high level of excitement on the research frontier, as newer techniques such as numerical and symbolic computer systems, dynamical systems, and chaos mix

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Numerical Mathematics Alfio Quarteroni, Riccardo Sacco, Fausto Saleri, 2017-01-26 Numerical mathematics is the branch of mathematics that proposes, develops, analyzes and applies methods from scientific computing to several fields including analysis, linear algebra, geometry, approximation theory, functional equations, optimization and differential equations. Other disciplines such as physics, the natural and biological sciences, engineering and economics and the financial sciences frequently give rise to problems that need scientific computing for their solutions. As such, numerical mathematics is the crossroad of several disciplines of great relevance in modern applied sciences and can become a crucial tool for their qualitative and quantitative analysis. One of the purposes of this book is to provide the mathematical foundations of numerical methods to analyze their basic theoretical properties: stability, accuracy, computational complexity and demonstrate their performances on examples and counterexamples which outline their pros and cons. This is done using the MATLAB software environment which is user friendly and widely adopted. Within any specific class of problems, the most appropriate scientific computing algorithms are reviewed, their theoretical analyses are carried out and the expected results are verified on a MATLAB computer implementation. Every chapter is supplied with examples, exercises and applications of the discussed theory to the solution of real life problems. This book is addressed to senior undergraduate and graduate students with particular focus on degree courses in Engineering, Mathematics, Physics and Computer Sciences. The attention which is paid to the applications and the related development of software makes it valuable also for researchers and users of scientific computing in a large variety of professional fields.

Computational Electromagnetics Anders Bondeson, Thomas Rylander, Pär Ingelström, 2006-02-07 Describes most popular computational methods used to solve problems in electromagnetics. Matlab code is included throughout so that the reader can implement the various techniques discussed. Exercises included.

Partial Differential Equations with Numerical Methods Stig Larsson, Vidar Thomee, 2008-11-19 The main theme is the integration of the theory of linear PDE and the theory of finite difference and finite element methods. For each type of PDE (elliptic, parabolic and hyperbolic) the text contains one chapter on the mathematical theory of the differential equation followed by one chapter on finite difference methods and one on finite element methods. The chapters on elliptic equations are preceded by a chapter on the two point boundary value problem for ordinary differential equations. Similarly, the chapters on time dependent problems are preceded by a chapter on the initial value problem for ordinary differential equations. There is also one chapter on the elliptic eigenvalue problem and eigenfunction expansion. The presentation does not presume a deep knowledge of mathematical and functional analysis. The required background on linear functional analysis and Sobolev spaces is reviewed.

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Peskin,2012-12-06 Mathematics in Medicine and the Life Sciences grew from lectures given by the authors at New York University the University of Utah and Michigan State University The material is written for students who have had but one term of calculus but it contains material that can be used in modeling courses in applied mathematics at all levels through early graduate courses Numerous exercises are given as well and solutions to selected exercises are included Numerous illustrations depict physiological processes population biology phenomena models of them and the results of computer simulations Mathematical models and methods are becoming increasingly important in medicine and the life sciences This book provides an introduction to a wide diversity of problems ranging from population phenomena to demographics genetics epidemics and dispersal in physiological processes including the circulation gas exchange in the lungs control of cell volume the renal counter current multiplier mechanism and muscle mechanics to mechanisms of neural control Each chapter is graded in difficulty so a reading of the first parts of each provides an elementary introduction to the processes and their models Materials that deal with the same topics but in greater depth are included later Finally exercises and some solutions are given to test the reader on important parts of the material in the text or to lead the reader to the discovery of interesting extensions of that material Introduction to Mechanics and Symmetry Jerrold E. Marsden,Tudor S. Ratiu,2013-03-19

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The primary emphasis of this book is the modeling analysis and control of mechanical systems The methods and results presented can be applied to a large class of mechanical control systems including applications in robotics autonomous vehicle control and multi body systems The book is unique in that it presents a unified rather than an inclusive treatment of control theory for mechanical systems A distinctive feature of the presentation is its reliance on techniques from differential and Riemannian geometry The book contains extensive examples and exercises and will be suitable for a growing number of courses in this area It begins with the detailed mathematical background proceeding through innovative approaches to

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Numerical Methods for Wave Equations in Geophysical Fluid Dynamics Dale R. Durran, 2013-03-14 Mathematics is playing an ever more important role in the physical and biological sciences provoking a blurring of boundaries between scientific disciplines and a resurgence of interest in the modern as well as the classical techniques of applied mathematics This renewal of interest both in research and teaching has led to the establishment of the series Texts in Applied Mathematics TAM The development of new courses is a natural consequence of a high level of excitement on the research frontier as newer techniques such as numerical and symbolic computer systems dynamical systems and chaos mix with and reinforce the traditional methods of applied mathematics Thus the purpose of this textbook series is to meet the current and future needs of these advances and encourage the teaching of new courses TAM will publish textbooks suitable for use in advanced undergraduate and beginning graduate courses and will complement the Applied Mathematical Sciences AMS series which will focus on advanced textbooks and research level monographs Preface This book is designed to serve as a textbook for graduate students or advanced undergraduates studying numerical methods for the solution of partial differential equations governing wave like flows Although the majority of the schemes presented in this text were introduced in either the applied mathematics or atmospheric science literature the focus is not on the nitty and bolts details of various atmospheric models but on fundamental numerical methods that have applications in a wide range of scientific and engineering disciplines

Markov Chains Pierre Bremaud, 2013-03-09 In this book the author begins with the elementary theory of Markov chains and very progressively brings the reader to the more advanced topics He gives a useful review of probability that makes the book self contained and provides an appendix with detailed proofs of all the prerequisites from calculus algebra and number theory A number of carefully chosen problems of varying difficulty are proposed at the close of each chapter and the mathematics are slowly and carefully developed in order to make self study easier The author treats the classic topics of Markov chain theory both in discrete time and continuous time as well as the connected topics such as finite Gibbs fields nonhomogeneous Markov chains discrete time regenerative processes Monte Carlo simulation simulated annealing and queueing theory The result is an

up to date textbook on stochastic processes Students and researchers in operations research and electrical engineering as well as in physics and biology will find it very accessible and relevant

Numerical Analysis in Modern Scientific Computing Peter Deuflhard, Andreas Hohmann, 2012-12-06 Mathematics is playing an ever more important role in the physical and biological sciences provoking a blurring of boundaries between scientific disciplines and a resurgence of interest in the modern as well as the classical techniques of applied mathematics This renewal of interest both in research and teaching has led to the establishment of the series Texts in Applied Mathematics TAM The development of new courses is a natural consequence of a high level of excitement on the research frontier as newer techniques such as numerical and symbolic computer systems dynamical systems and chaos mix with and reinforce the traditional methods of applied mathematics Thus the purpose of this textbook series is to meet the current and future needs of these advances and to encourage the teaching of new courses TAM will publish textbooks suitable for use in advanced undergraduate and beginning graduate courses and will complement the Applied Mathematical Sciences AMS series which will focus on advanced textbooks and research level monographs

Introduction to Perturbation Methods Mark H. Holmes, 2013-12-01 This book is an introductory graduate text dealing with many of the perturbation methods currently used by applied mathematicians scientists and engineers The author has based his book on a graduate course he has taught several times over the last ten years to students in applied mathematics engineering sciences and physics The only prerequisite for the course is a background in differential equations Each chapter begins with an introductory development involving ordinary differential equations The book covers traditional topics such as boundary layers and multiple scales However it also contains material arising from current research interest This includes homogenization slender body theory symbolic computing and discrete equations One of the more important features of this book is contained in the exercises Many are derived from problems of up to date research and are from a wide range of application areas

Numerical Partial Differential Equations: Finite Difference Methods J.W. Thomas, 2013-12-01 This text will be divided into two books which cover the topic of numerical partial differential equations Of the many different approaches to solving partial differential equations numerically this book studies difference methods Written for the beginning graduate student this text offers a means of coming out of a course with a large number of methods which provide both theoretical knowledge and numerical experience The reader will learn that numerical experimentation is a part of the subject of numerical solution of partial differential equations and will be shown some uses and taught some techniques of numerical experimentation

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