3 Numerical Solution of Differential Equations

One of the simplest mathematical models known in epidemiology is so-called SIRD mode I It is defined by the following system of differential equations

$$\begin{cases} S'(t) = -\frac{\beta}{N}I(t)S(t) \\ I'(t) = \frac{\beta}{N}I(t)S(t) - \alpha I(t) - \gamma I(t) \\ R'(t) = \alpha I(t) \\ D'(t) = \gamma I(t) \end{cases}$$

where S(t) denotes the number of susceptible individuals, I(t) denotes the number of infected individuals, R(t) denotes the number of recovered individuals, D(t) denotes the number of deceased individuals, β is the infection rate, α is the recovery rate, γ is the mortality rate, and N = S + I + R + D. Assume that S(0) = 997, I(0) = 3, R(0) = 0, D(0) = 0, $\beta = 0.4$, $\alpha = 0.035$, $\gamma = 0.005$, and $t \in [0, 150]$.

- Use Matlab ODE solver ode45 to calculate the numerical solution of SIRD model with given parameters and initial conditions. Plot in one frame the numerical solutions of S(t), I(t), R(t), and D(t) against time. What do you observe from the plots and how do you interpret the dynamics of the system?
- Write the code implementing the third order Runge-Kutta method (RK3) given by the following Butcher table:

$$\begin{array}{c|ccccc}
0 & & & & & \\
1/2 & 1/2 & & & & \\
1 & -1 & 2 & & & \\
\hline
& 1/6 & 2/3 & 1/6 & & & \\
\end{array}$$

Use RK3 method with stepsize $\tau = 10^{-3}$ to find the numerical solution of SIRD model with given parameters and initial conditions. Plot in one frame the numerical solutions of S(t), I(t), R(t), and D(t) against time. Make a qualitative comparison with the results obtained with ode45 solver.

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Douglas Quinney

Numerical Solution Of Differential Equat:

Numerical Solution Of Ordinary And Partial Differential Equations, The (3rd Edition) Granville

Sewell, 2014-12-16 This book presents methods for the computational solution of differential equations both ordinary and partial time dependent and steady state Finite difference methods are introduced and analyzed in the first four chapters and finite element methods are studied in chapter five A very general purpose and widely used finite element program PDE2D which implements many of the methods studied in the earlier chapters is presented and documented in Appendix A The book contains the relevant theory and error analysis for most of the methods studied but also emphasizes the practical aspects involved in implementing the methods Students using this book will actually see and write programs FORTRAN or MATLAB for solving ordinary and partial differential equations using both finite differences and finite elements In addition they will be able to solve very difficult partial differential equations using the software PDE2D presented in Appendix A PDE2D solves very general steady state time dependent and eigenvalue PDE systems in 1D intervals general 2D regions and a wide range of simple 3D regions The Windows version of PDE2D comes free with every purchase of this book More information at www Numerical Solution of Differential Equations Zhilin Li, Zhonghua Qiao, Tao Tang, 2017-11-30 This introduction to finite difference and finite element methods is aimed at graduate students who need to solve differential equations The prerequisites are few basic calculus linear algebra and ODEs and so the book will be accessible and useful to readers from a range of disciplines across science and engineering Part I begins with finite difference methods Finite element methods are then introduced in Part II In each part the authors begin with a comprehensive discussion of one dimensional problems before proceeding to consider two or higher dimensions An emphasis is placed on numerical algorithms related mathematical theory and essential details in the implementation while some useful packages are also introduced The authors also provide well tested MATLAB codes all available online Numerical Solution of Differential Equations William Edmund Milne, 1970 Numerical Solution of Ordinary Differential Equations Kendall Atkinson, Weimin Han, David E. Stewart, 2011-10-24 A concise introduction to numerical methods and the mathematical framework needed to understand their performance Numerical Solution of Ordinary Differential Equationspresents a complete and easy to follow introduction to classicaltopics in the numerical solution of ordinary differential equations. The book s approach not only explains the presentedmathematics but also helps readers understand how these numericalmethods are used to solve real world problems Unifying perspectives are provided throughout the text bringingtogether and categorizing different types of problems in order tohelp readers comprehend the applications of ordinary differential equations. In addition the authors collective academic experienceensures a coherent and accessible discussion of key topics including Euler's method Taylor and Runge Kutta methods General error analysis for multi step methods Stiff differential equations Differential algebraic equations Two point boundary value problems Volterra integral equations Each chapter features problem sets that enable

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specific but also generic techniques for study of systems theory ant its particular branches such as optimal filtering and information compression Best operator approximation Non Lagrange interpolation Generic Karhunen Loeve transform Generalised low rank matrix approximation Optimal data compression Optimal nonlinear filtering Numerical Analysis of Ordinary and Delay Differential Equations Taketomo Mitsui, Guang-Da Hu, 2023-05-23 This book serves as a concise textbook for students in an advanced undergraduate or first year graduate course in various disciplines such as applied mathematics control and engineering who want to understand the modern standard of numerical methods of ordinary and delay differential equations Experts in the same fields can also learn about the recent developments in numerical analysis of such differential systems Ordinary differential equations ODEs provide a strong mathematical tool to express a wide variety of phenomena in science and engineering Along with its own significance one of the powerful directions toward which ODEs extend is to incorporate an unknown function with delayed argument This is called delay differential equations DDEs which often appear in mathematical modelling of biology demography epidemiology and control theory. In some cases the solution of a differential equation can be obtained by algebraic combinations of known mathematical functions. In many practical cases however such a solution is quite difficult or unavailable and numerical approximations are called for Modern development of computers accelerates the situation and moreover launches more possibilities of numerical means Henceforth the knowledge and expertise of the numerical solution of differential equations becomes a requirement in broad areas of science and engineering One might think that a well organized software package such as MATLAB serves much the same solution In a sense this is true but it must be kept in mind that blind employment of software packages misleads the user The gist of numerical solution of differential equations still must be learned The present book is intended to provide the essence of numerical solutions of ordinary differential equations as well as of delay differential equations Particularly the authors noted that there are still few concise textbooks of delay differential equations and then they set about filling the gap through descriptions as transparent as possible Major algorithms of numerical solution are clearly described in this book The stability of solutions of ODEs and DDEs is crucial as well The book introduces the asymptotic stability of analytical and numerical solutions and provides a practical way to analyze their stability by employing a theory of complex functions Numerical Analysis of Systems of Ordinary and Stochastic Differential Equations Sergej S. Artemiev, Tatjana A. Averina, 1997 This book deals with numerical analysis of systems of both ordinary and stochastic differential equations. The first chapter is devoted to numerical solution problems of the Cauchy problem for stiff ordinary differential equation ODE systems by Rosenbrock type methods RTMs Here general solutions of consistency equations are obtained which lead to the construction of RTMs from the first to the fourth order The second chapter deals with statistical simulation problems of the solution of the Cauchy problem for stochastic differential equation SDE systems The mean square convergence theorem is considered as well as Taylor expansions of numerical solutions Also included are applications of numerical methods of SDE solutions to partial differential

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