Stability and Oscillations in Delay Differential Equations of Population Dynamics

by

K. Gopalsamy
School of Information Science and Technology,
The Flinders University of South Australia,
Adelaide, Australia

Stability And Oscillations In Delay Differential Equations Of Population Dynamics

Seshadev Padhi,John R. Graef,P. D. N. Srinivasu

Stability And Oscillations In Delay Differential Equations Of Population Dynamics:

Stability and Oscillations in Delay Differential Equations of Population Dynamics K. Gopalsamy,1992-03-31 This monograph provides a definitive overview of recent advances in the stability and oscillation of autonomous delay differential equations Topics include linear and nonlinear delay and integrodifferential equations which have potential applications to both biological and physical dynamic processes Chapter 1 deals with an analysis of the dynamical characteristics of the delay logistic equation and a number of techniques and results relating to stability oscillation and comparison of scalar delay and integrodifferential equations are presented Chapter 2 provides a tutorial style introduction to the study of delay induced Hopf bifurcation to periodicity and the related computations for the analysis of the stability of bifurcating periodic solutions Chapter 3 is devoted to local analyses of nonlinear model systems and discusses many methods applicable to linear equations and their perturbations Chapter 4 considers global convergence to equilibrium states of nonlinear systems and includes oscillations of nonlinear systems about their equilibria Qualitative analyses of both competitive and cooperative systems with time delays feature in both Chapters 3 and 4 Finally Chapter 5 deals with recent developments in models of neutral differential equations and their applications to population dynamics Each chapter concludes with a number of exercises and the overall exposition recommends this volume as a good supplementary text for graduate courses For mathematicians whose work involves functional differential equations and whose interest extends beyond the boundaries of linear stability analysis **Delay Differential Equations and Applications to Biology** Fathalla A. Rihan,2021-08-19 This book discusses the numerical treatment of delay differential equations and their applications in bioscience A wide range of delay differential equations are discussed with integer and fractional order derivatives to demonstrate their richer mathematical framework compared to differential equations without memory for the analysis of dynamical systems The book also provides interesting applications of delay differential equations in infectious diseases including COVID 19 It will be valuable to mathematicians and specialists associated with mathematical biology mathematical modelling life sciences immunology and infectious diseases *Stability and Stabilization of Time-Delay Systems* Wim Michiels,Silviu-Iulian Niculescu,2007-01-01 An overall solution to the robust stability analysis and stabilisation problem of linear time delay systems **Oscillation and Stability of Delay Models in Biology** Ravi P. Agarwal,Donal O'Regan,Samir H. Saker,2014-06-07 Environmental variation plays an important role in many biological and ecological dynamical systems This monograph focuses on the study of oscillation and the stability of delay models occurring in biology The book presents recent research results on the qualitative behavior of mathematical models under different physical and environmental conditions covering dynamics including the distribution and consumption of food Researchers in the fields of mathematical modeling mathematical biology and population dynamics will be particularly interested in this material Delay Differential Equations and Applications O. Arino,M.L. Hbid,E. Ait Dads,2007-01-07 This book groups material that was used for the Marrakech 2002 School on Delay Di erential Equations and

Applications The school was held from September 9 21 2002 at the Semlalia College of Sciences of the Cadi Ayyad University Marrakech Morocco 47 participants and 15 instructors originating from 21 countries attended the school Fin cial limitations only allowed support for part of the people from Africa andAsiawhohadexpressedtheirinterestintheschoolandhadhopedto come Theschoolwassupportedby nancementsfromNATO ASI Nato advanced School the International Centre of Pure and Applied Mat matics CIMPA Nice France and Cadi Ayyad University The activity of the school consisted in courses plenary lectures 3 and communi tions 9 from Monday through Friday 8 30 am to 6 30 pm Courses were divided into units of 45mn duration taught by block of two units with a short 5mn break between two units within a block and a 25mn break between two blocks The school was intended for mathematicians willing to acquire some familiarity with delay di erential equations or enhance their knowledge on this subject The aim was indeed to extend the basic set of knowledge including ordinary di erential equations and semilinearevolutionequations suchasforexamplethedi usion reaction equations arising in morphogenesis or the Belouzov Zhabotinsky ch ical reaction and the classic approach for the resolution of these eq tions by perturbation to equations having in addition terms involving past values of the solution   An Introduction to Delay Differential Equations with Applications to the Life Sciences hal smith,2010-09-29 This book is intended to be an introduction to Delay Differential Equations for upper level undergraduates or beginning graduate mathematics students who have a reasonable background in ordinary differential equations and who would like to get to the applications quickly The author has used preliminary notes in teaching such a course at Arizona State University over the past two years This book focuses on the key tools necessary to understand the applications literature involving delay equations and to construct and analyze mathematical models involving delay differential equations The book begins with a survey of mathematical models involving delay equations   *Periodic Solutions of First-Order Functional Differential Equations in Population Dynamics* Seshadev Padhi,John R. Graef,P. D. N. Srinivasu,2014-05-09 This book provides cutting edge results on the existence of multiple positive periodic solutions of first order functional differential equations It demonstrates how the Leggett Williams fixed point theorem can be applied to study the existence of two or three positive periodic solutions of functional differential equations with real world applications particularly with regard to the Lasota Wazewska model the Hematopoiesis model the Nicholsons Blowflies model and some models with Allee effects Many interesting sufficient conditions are given for the dynamics that include nonlinear characteristics exhibited by population models The last chapter provides results related to the global appeal of solutions to the models considered in the earlier chapters The techniques used in this book can be easily understood by anyone with a basic knowledge of analysis This book offers a valuable reference guide for students and researchers in the field of differential equations with applications to biology ecology and the environment   **Differential Equations and Applications, Volume 4** Yeol Je Cho,2007-07-02 The aim of this volume is to introduce new topics on the areas of difference differential integrodifferential and integral equations evolution equations control and optimisation theory

dynamic system theory queuing theory and electromagnetism and their applications **Differential Equations with Applications to Biology** Shigui Ruan,Gail Susan Kohl Wolkowicz,Jianhong Wu, **Dynamics of Controlled Mechanical Systems with Delayed Feedback** H.Y. Hu,Z.H. Wang,2013-03-09 Recent years have witnessed a rapid development of active control of various mechanical systems With increasingly strict requirements for control speed and system performance the unavoidable time delays in both controllers and actuators have become a serious problem For instance all digital controllers analogue anti aliasing and reconstruction filters exhibit a certain time delay during operation and the hydraulic actuators and human being interaction usually show even more significant time delays These time delays albeit very short in most cases often deteriorate the control performance or even cause the instability of the system be cause the actuators may feed energy at the moment when the system does not need it Thus the effect of time delays on the system performance has drawn much at tention in the design of robots active vehicle suspensions active tendons for tall buildings as well as the controlled vibro impact systems On the other hand the properly designed delay control may improve the performance of dynamic sys tems For instance the delayed state feedback has found its applications to the design of dynamic absorbers the linearization of nonlinear systems the control of chaotic oscillators etc Most controlled mechanical systems with time delays can be modeled as the dynamic systems described by a set of ordinary differential equations with time delays

Proceedings of International Joint Conference on Advances in Computational Intelligence Mohammad Shorif Uddin,Jagdish Chand Bansal,2025-07-09 This book gathers outstanding research papers presented at the 8th International Joint Conference on Advances in Computational Intelligence IJCACI 2024 held in hybrid mode at South Asian University New Delhi India during October 5 6 2024 IJCACI 2024 is jointly organized by Jahangirnagar University JU Bangladesh and South Asian University SAU India The book presents the novel contributions in areas of computational intelligence and it serves as a reference material for advance research The topics covered are collective intelligence soft computing optimization cloud computing machine learning intelligent software robotics data science data security big data analytics and signal and natural language processing **Dynamical Systems and Their Applications in Biology** Shigui Ruan,Gail Susan Kohl Wolkowicz,Jianhong Wu,Fields Institute for Research in Mathematical Sciences,2003-01-01 This volume is based on the proceedings of the International Workshop on Dynamical Systems and their Applications in Biology held at the Canadian Coast Guard College on Cape Breton Island Nova Scotia Canada It presents a broad picture of the current research surrounding applications of dynamical systems in biology particularly in population biology The book contains 19 papers and includes articles on the qualitative and or numerical analysis of models involving ordinary partial functional and stochastic differential equations Applications include epidemiology population dynamics and physiology The material is suitable for graduate students and research mathematicians interested in ordinary differential equations and their applications in biology Also available by Ruan Wolkowicz and Wu is Differential Equations with Applications to Biology Volume 21 in the AMS series

Fields Institute Communications **Differential Models and Neutral Systems for Controlling the Wealth of Nations** Ethelbert N. Chukwu,2001 This monograph derives from familiar economic principles the dynamics of national income the interest rate employment the value of capital stock prices and the cumulative balance of payments This is a Volterra neutral integrodifferential game of pursuit The quarry control is government intervention in the form of taxation control of money supply tariffs foreign credit interest equalization tax preferential trade agreements which reduce trade barriers and enhance trade flows between nations transportation and distance between trading partners The pursuer controls include wages and productivity The book provides conditions for controllability and then deduces how big government intervention compared with private firms contributions should be to ensure the possibility of growth The reader is assumed to be familiar with advanced calculus and to have a working knowledge of ordinary differential equations The required theory of hereditary systems can be obtained from the book itself **IUTAM Symposium on Dynamics and Control of Nonlinear Systems with Uncertainty** H.Y. Hu,E. Kreuzer,2007-08-26 The last decade has witnessed an increasing interest towards the dynamics and control of nonlinear engineering systems from the scientists engaged in nonlinear dynamics and the control engineers Both groups of people have recognized the importance of interaction between nonlinear dynamics and robust control during their efforts to improve the dynamic performance of engineering systems with uncertainty which comes from either the random excitations such as wind and earthquake or the modelling errors of real systems including their sensors controllers and actuators The dynamics and control of nonlinear systems with uncertainty therefore is a vital interdisciplinary topic related to both stochastic systems and deterministic systems This volume contains the papers presented at the IUTAM Symposium on Dynamics and Control of Nonlinear Systems with Uncertainty which was sponsored by the International Union of Theoretical and Applied Mechanics IUTAM and held at Nanjing University of Aeronautics and Astronautics China 18 22 September 2006 The aim of the symposium was to bringing together the scientists to discuss the advances in dynamics and control of nonlinear systems especially those with uncertainties in either system modeling or excitation The scientific committee appointed by the Bureau of IUTAM includes the following members F L Chernousko Moscow Russia E Kreuzer Hamburg Germany Co Chairman H Y Hu Nanjing China Chairman A H Nayfeh Blacksburg USA G Rega Rome Italy W Schiehlen Stuttgart Germany IUTAM representative K Sobczyk Warsaw Poland G Stepan Budapest Hungary H Troger Wien Austria ix x Preface Systems with Delays A. V. Kim,A. V. Ivanov,2015-07-23 The main aim of the book is to present new constructive methods of delay differential equation DDE theory and to give readers practical tools for analysis control design and simulating of linear systems with delays Referred to as systems with delays in this volume this class of differential equations is also called delay differential equations DDE time delay systems hereditary systems and functional differential equations Delay differential equations are widely used for describing and modeling various processes and systems in different applied problems At present there are effective control and numerical methods and corresponding software for

analysis and simulating different classes of ordinary differential equations ODE and partial differential equations PDE There are many applications for these types of equations because of this progress but there are not as many methodologies in systems with delays that are easily applicable for the engineer or applied mathematician there are no methods of finding solutions in explicit forms and there is an absence of generally available general purpose software packages for simulating such systems Systems with Delays fills this void and provides easily applicable methods for engineers mathematicians and scientists to work with delay differential equations in their operations and research   <u>Computational Mathematics and Variational Analysis</u> Nicholas J. Daras,Themistocles M. Rassias,2020-06-06 This volume presents a broad discussion of computational methods and theories on various classical and modern research problems from pure and applied mathematics Readers conducting research in mathematics engineering physics and economics will benefit from the diversity of topics covered Contributions from an international community treat the following subjects calculus of variations optimization theory operations research game theory differential equations functional analysis operator theory approximation theory numerical analysis asymptotic analysis and engineering Specific topics include algorithms for difference of monotone operators variational inequalities in semi inner product spaces function variation principles and normed minimizers equilibria of parametrized N player nonlinear games multi symplectic numerical schemes for differential equations time delay multi agent systems computational methods in non linear design of experiments unsupervised stochastic learning asymptotic statistical results global local transformation scattering relations of elastic waves generalized Ostrowski and trapezoid type rules numerical approximation Sz sz Durrmeyer operators and approximation integral inequalities behaviour of the solutions of functional equations functional inequalities in complex Banach spaces functional contractions in metric spaces   **Dynamic Inequalities On Time Scales** Ravi Agarwal,Donal O'Regan,Samir Saker,2014-10-30 This is a monograph devoted to recent research and results on dynamic inequalities on time scales The study of dynamic inequalities on time scales has been covered extensively in the literature in recent years and has now become a major sub field in pure and applied mathematics In particular this book will cover recent results on integral inequalities including Young s inequality Jensen s inequality Holder s inequality Minkowski s inequality Steffensen s inequality Hermite Hadamard inequality and eby v s inequality Opial type inequalities on time scales and their extensions with weighted functions Lyapunov type inequalities Halanay type inequalities for dynamic equations on time scales and Wirtinger type inequalities on time scales and their extensions will also be discussed here in detail   <u>New Developments in Difference Equations and Applications</u> Sui Sun Cheng,Saber N. Elaydi,1999-06-11 The late Professor Ming Po Chen was instrumental in making the Third International Conference on Difference Equations a great success Dedicated to his memory these proceedings feature papers presented by many of the most prominent mathematicians in the field It is a comprehensive collection of the latest developments in topics including stability theory combinatorics asymptotics partial difference equations as well as applications to biological social and natural

sciences This volume is an indispensable reference for academic and applied mathematicians theoretical physicists systems engineers and computer and information scientists   **World Congress of Nonlinear Analysts '92** V. Lakshmikantham,2011-11-14 No detailed description available for World Congress of Nonlinear Analysts 92   **Advances In Analysis And Control Of Time-delayed Dynamical Systems** Jian-qiao Sun,Qian Ding,2013-09-25 Analysis and control of time delayed systems have been applied in a wide range of applications ranging from mechanical control economic to biological systems Over the years there has been a steady stream of interest in time delayed dynamic systems this book takes a snap shot of recent research from the world leading experts in analysis and control of dynamic systems with time delay to provide a bird s eye view of its development The topics covered in this book include solution methods stability analysis and control of periodic dynamic systems with time delay bifurcations stochastic dynamics and control delayed Hamiltonian systems uncertain dynamic systems with time delay and experimental investigations of delayed structural control

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le drame des rêves de la jeunesse conclusion le drame de l orgueil camille et perdican en effet étaient promis l un à l autre depuis longtemps et la rencontre trop habilement combinée par le baron devait préluder à un mariage heureux mais chacun d eux repousse à son tour l heureux projet en se laissant aller à un mouvement de vanité

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celui ci arrive à ses fins mais lors de leur premier baiser rosette amoureuse de perdican les aperçoit et pousse un cri strident rosette se tue et camille mise au courant du stratagème de perdican le quitte le titre sonne comme un avertissement on

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alfred de musset 1861 la pièce se déroule au château du baron camille la nièce du baron sort du couvent elle a 18 ans elle retrouve le fils de son oncle perdican qui a 21 ans et vient d obtenir un doctorat ils ne s étaient pas vus depuis dix ans le baron souhaite les marier perdican et camille s aiment depuis toujours

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