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On the Asymptotic of Solutions of Odd Order Two-Term Differential Equations

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Impulse Differential Equations Asymptotic Properties Of The Solutions

Michal Feckan, Michal Pospíšil



Impulse Differential Equations Asymptotic Properties Of The Solutions:

Impulsive Differential Equations: Asymptotic Properties Of The Solutions Drumi D Bainov, Pavel Simeonov, 1995-03-29
The question of the presence of various asymptotic properties of the solutions of ordinary differential equations arises when solving various practical problems. The investigation of these questions is still more important for impulsive differential equations which have a wider field of application than the ordinary ones. The results obtained by treating the asymptotic properties of the solutions of impulsive differential equations can be found in numerous separate articles. The systematized exposition of these results in a separate book will satisfy the growing interest in the problems related to the asymptotic properties of the solutions of impulsive differential equations and their applications.

Specific Asymptotic Properties of the Solutions of Impulsive Differential Equations. Methods and Applications, *Almost Periodicity, Chaos, and Asymptotic Equivalence* Marat Akhmet, 2019-06-20
The central subject of this book is Almost Periodic Oscillations, the most common oscillations in applications and the most intricate for mathematical analysis. Prof. Akhmet's lucid and rigorous examination proves these oscillations are a regular component of chaotic attractors. The book focuses on almost periodic functions first of all as stable asymptotic solutions of differential equations of different types, presumably discontinuous, and secondly as non-isolated oscillations in chaotic sets. Finally, the author proves the existence of Almost Periodic Oscillations asymptotic and bi-asymptotic by asymptotic equivalence between systems. The book brings readers attention to contemporary methods for considering oscillations as well as to methods with strong potential for study of chaos in the future. Providing three powerful instruments for mathematical research of oscillations where dynamics are observable and applied, the book is ideal for engineers as well as specialists in electronics, computer sciences, robotics, neural networks, artificial networks, and biology. Distinctively combines results and methods of the theory of differential equations with thorough investigation of chaotic dynamics with almost periodic ingredients. Provides all necessary mathematical basics in their most developed form, negating the need for any additional sources for readers to start work in the area. Presents a unique method of investigation of discontinuous almost periodic solutions in its unified form, employed to differential equations with different types of discontinuity. Develops the equivalence method to its ultimate effective state such that most important theoretical problems and practical applications can be analyzed by the method.

Mathematical Modeling of Discontinuous Processes Andrey Antonov, Angel A. Dishliev, Angel B. Dishliev, Svetoslav Nenov, 2017-12-19
In this monograph, as a mathematical apparatus, are used and investigated several classes of differential equations. The most significant feature of these differential equations is the presence of impulsive effects. The main goals and the results achieved in the monograph are related to the use of this class of equation for an adequate description of the dynamics of several types of processes that are subject to discrete external interventions and change the speed of development. In all proposed models, the following requirements have been met:

1. Presented and studied mathematical models in the book are extensions of existing known in the literature models of

real objects and related processes 2 Generalizations of the studied models are related to the admission of external impulsive effects which lead to jump like change the quantity characteristics of the described object as well as the rate of its modification 3 Sufficient conditions which guarantee certain qualities of the dynamics of the quantities of the modeled objects are found 4 Studies of the qualities of the modification of the modeled objects are possible to be successful by differential equations with variable structure and impulsive effects 5 The considerations relating to the existence of the studied properties of dynamic objects cannot be realized without introducing new concepts and proving of appropriate theorems The main objectives can be conditionally divided into several parts 1 New classes of differential equations with variable structure and impulses are introduced and studied 2 Specific properties of the above mentioned class of differential equations are introduced and studied The present monograph consists of an introduction and seven chapters Each chapter contains several sections

Approximate Solutions of Impulsive Hyperbolic Equations Dimitŭr Baŭnov,Zdzisław Kamont,Emil Minchev,1996

Nonlinear Higher Order Differential And Integral Coupled Systems: Impulsive And Integral Equations On Bounded And Unbounded Domains Feliz Manuel Minhos,Robert De Sousa,2022-04-11

Boundary value problems on bounded or unbounded intervals involving two or more coupled systems of nonlinear differential and integral equations with full nonlinearities are scarce in the literature The present work by the authors desires to fill this gap The systems covered here include differential and integral equations of Hammerstein type with boundary constraints on bounded or unbounded intervals These are presented in several forms and conditions three points mixed with functional dependence homoclinic and heteroclinic amongst others This would be the first time that differential and integral coupled systems are studied systematically The existence and in some cases the localization of the solutions are carried out in Banach space following several types of arguments and approaches such as Schauder s fixed point theorem or Guo Krasnosel ski fixed point theorem in cones allied to Green s function or its estimates lower and upper solutions convenient truncatures the Nagumo condition presented in different forms the concept of equiconvergence Carath odory functions and sequences Moreover the final part in the volume features some techniques on how to relate differential coupled systems to integral ones which require less regularity Parallel to the theoretical explanation of this work there is a range of practical examples and applications involving real phenomena focusing on physics mechanics biology forestry and dynamical systems which researchers and students will find useful

Fractional Differential Equations, Inclusions and Inequalities with Applications Sotiris K. Ntouyas,2020-11-09

During the last decade there has been an increased interest in fractional differential equations inclusions and inequalities as they play a fundamental role in the modeling of numerous phenomena in particular in physics biomathematics blood flow phenomena ecology environmental issues viscoelasticity aerodynamics electrodynamics of complex medium electrical circuits electron analytical chemistry control theory etc This book presents collective works published in the recent Special Issue SI entitled Fractional Differential Equation Inclusions and Inequalities with Applications

of the journal *Mathematics* This Special Issue presents recent developments in the theory of fractional differential equations and inequalities Topics include but are not limited to the existence and uniqueness results for boundary value problems for different types of fractional differential equations a variety of fractional inequalities impulsive fractional differential equations and applications in sciences and engineering

Bifurcation and Chaos in Discontinuous and Continuous Systems Michal Fečkan, 2011-05-30 *Bifurcation and Chaos in Discontinuous and Continuous Systems* provides rigorous mathematical functional analytical tools for handling chaotic bifurcations along with precise and complete proofs together with concrete applications presented by many stimulating and illustrating examples A broad variety of nonlinear problems are studied involving difference equations ordinary and partial differential equations differential equations with impulses piecewise smooth differential equations differential and difference inclusions and differential equations on infinite lattices as well This book is intended for mathematicians physicists theoretically inclined engineers and postgraduate students either studying oscillations of nonlinear mechanical systems or investigating vibrations of strings and beams and electrical circuits by applying the modern theory of bifurcation methods in dynamical systems Dr Michal Fečkan is a Professor at the Department of Mathematical Analysis and Numerical Mathematics on the Faculty of Mathematics Physics and Informatics at the Comenius University in Bratislava Slovakia He is working on nonlinear functional analysis bifurcation theory and dynamical systems with applications to mechanics and vibrations

Bifurcation Theory of Impulsive Dynamical Systems Kevin E.M. Church, Xinzhi Liu, 2021-03-24 This monograph presents the most recent progress in bifurcation theory of impulsive dynamical systems with time delays and other functional dependence It covers not only smooth local bifurcations but also some non smooth bifurcation phenomena that are unique to impulsive dynamical systems The monograph is split into four distinct parts independently addressing both finite and infinite dimensional dynamical systems before discussing their applications The primary contributions are a rigorous nonautonomous dynamical systems framework and analysis of nonlinear systems stability and invariant manifold theory Special attention is paid to the centre manifold and associated reduction principle as these are essential to the local bifurcation theory Specifying to periodic systems the Floquet theory is extended to impulsive functional differential equations and this permits an exploration of the impulsive analogues of saddle node transcritical pitchfork and Hopf bifurcations Readers will learn how techniques of classical bifurcation theory extend to impulsive functional differential equations and as a special case impulsive differential equations without delays They will learn about stability for fixed points periodic orbits and complete bounded trajectories and how the linearization of the dynamical system allows for a suitable definition of hyperbolicity They will see how to complete a centre manifold reduction and analyze a bifurcation at a nonhyperbolic steady state

Poincaré-Andronov-Melnikov Analysis for Non-Smooth Systems Michal Fečkan, Michal Pospíšil, 2016-06-07 *Poincaré-Andronov-Melnikov Analysis for Non-Smooth Systems* is devoted to the study of bifurcations of periodic solutions for general n dimensional discontinuous systems The authors study these systems

under assumptions of transversal intersections with discontinuity switching boundaries Furthermore bifurcations of periodic sliding solutions are studied from sliding periodic solutions of unperturbed discontinuous equations and bifurcations of forced periodic solutions are also investigated for impact systems from single periodic solutions of unperturbed impact equations In addition the book presents studies for weakly coupled discontinuous systems and also the local asymptotic properties of derived perturbed periodic solutions The relationship between non smooth systems and their continuous approximations is investigated as well Examples of 2 3 and 4 dimensional discontinuous ordinary differential equations and impact systems are given to illustrate the theoretical results The authors use so called discontinuous Poincar mapping which maps a point to its position after one period of the periodic solution This approach is rather technical but it does produce results for general dimensions of spatial variables and parameters as well as the asymptotical results such as stability instability and hyperbolicity Extends Melnikov analysis of the classic Poincar and Andronov staples pointing to a general theory for freedom in dimensions of spatial variables and parameters as well as asymptotical results such as stability instability and hyperbolicity Presents a toolbox of critical theoretical techniques for many practical examples and models including non smooth dynamical systems Provides realistic models based on unsolved discontinuous problems from the literature and describes how Poincar Andronov Melnikov analysis can be used to solve them Investigates the relationship between non smooth systems and their continuous approximations

Mathematical Modelling of Zombies Robert Smith?,2014-10-14 In this terrible new COVID 19 world the University of Ottawa is doing its part by offering a 50% discount on this very important book We decided not to rewrite the witty book description though we realize it is tone deaf at the present moment as we wanted to give readers a sense of the tone of this title But don t be deceived while a fun read this book will help you better understand how epidemiologists governments and health care planners use mathematical models to figure out how quickly epidemics and pandemics spread in order to plan appropriately Reading has perhaps never been as important and this book should be at the top of your reading list You re outnumbered in fear for your life surrounded by flesh-eating zombies What can save you now Mathematics of course Mathematical Modelling of Zombies engages the imagination to illustrate the power of mathematical modelling Using zombies as a hook you ll learn how mathematics can predict the unpredictable In order to be prepared for the apocalypse you ll need mathematical models differential equations statistical estimations discrete-time models and adaptive strategies for zombie attacks as well as baseball bats and Dire Straits records latter two items not included In Mathematical Modelling of Zombies Robert Smith brings together a highly skilled team of contributors to fend off a zombie uprising You ll also learn how modelling can advise government policy how theoretical results can be communicated to a non-mathematical audience and how models can be formulated with only limited information A forward by Andrew Cartmel former script editor of Doctor Who author zombie fan and all round famous person in science fiction circles even provides a genealogy of the undead By understanding how to combat zombies readers will be

introduced to a wide variety of modelling techniques that are applicable to other real world issues biology epidemiology medicine public health etc So if the zombies turn up reach for this book The future of the human race may depend on it

Dynamical Mechanical Systems Under Random Impulses Radosław Iwankiewicz,1995 The book presents the methods of analysis of dynamical mechanical systems subjected to stochastic excitations in form of random trains of impulses This particular class of excitations is adequately characterized by stochastic point processes and behaviour of dynamical systems is governed by stochastic differential equations driven by point processes Based on the methods of point processes the analytical techniques are devised to characterize the response of linear and nonlinear mechanical systems as the solutions of underlying stochastic differential equations A number of example problems of engineering importance are also solved such as the vibration of plates and shells and of nonlinear oscillators under random impulses Numerical Methods for Viscosity Solutions and Applications Maurizio Falcone,Charalampos Makridakis,2001 Geometrical optics and viscosity solutions A P Blanc G T Kossioris and G N Makrakis Computation of vorticity evolution for a cylindrical Type II superconductor subject to parallel and transverse applied magnetic fields A Briggs et al A characterization of the value function for a class of degenerate control problems F Camilli Some microstructures in three dimensions M Chipot and V Lecuyer Convergence of numerical schemes for the approximation of level set solutions to mean curvature flow K Deckelnick and G Dziuk Optimal discretization steps in semi lagrangian approximation of first order PDEs M Falcone R Ferretti and T Manfroni Convergence past singularities to the forced mean curvature flow for a modified reaction diffusion approach F Fierro The viscosity duality solutions approach to geometric optics for the Helmholtz equation L Gosse and F James Adaptive grid generation for evolutive Hamilton Jacobi Bellman equations L Grune Solution and application of anisotropic curvature driven evolution of curves and surfaces K Mikula An adaptive scheme on unstructured grids for the shape from shading problem M Sagona and A Seghini On a posteriori error estimation for constant obstacle problems A Veaser Using the Mathematics Literature Kristine K. Fowler,2004-05-25 This reference serves as a reader friendly guide to every basic tool and skill required in the mathematical library and helps mathematicians find resources in any format in the mathematics literature It lists a wide range of standard texts journals review articles newsgroups and Internet and database tools for every major subfield in mathematics **Stability and Control of Large-Scale Dynamical Systems** Wassim M. Haddad,Sergey G. Nersisov,2011-11-14 Modern complex large scale dynamical systems exist in virtually every aspect of science and engineering and are associated with a wide variety of physical technological environmental and social phenomena including aerospace power communications and network systems to name just a few This book develops a general stability analysis and control design framework for nonlinear large scale interconnected dynamical systems and presents the most complete treatment on vector Lyapunov function methods vector dissipativity theory and decentralized control architectures Large scale dynamical systems are strongly interconnected and consist of interacting subsystems

exchanging matter energy or information with the environment The sheer size or dimensionality of these systems necessitates decentralized analysis and control system synthesis methods for their analysis and design Written in a theorem proof format with examples to illustrate new concepts this book addresses continuous time discrete time and hybrid large scale systems It develops finite time stability and finite time decentralized stabilization thermodynamic modeling maximum entropy control and energy based decentralized control This book will interest applied mathematicians dynamical systems theorists control theorists and engineers and anyone seeking a fundamental and comprehensive understanding of large scale interconnected dynamical systems and control *Impulsive Systems with Delays* Xiaodi Li, Shiji Song, 2021-10-15 This book systematically presents the most recent progress in stability and control of impulsive systems with delays Impulsive systems have recently attracted continued high research interests because they provide a natural framework for mathematical modeling of many real world processes It focuses not only on impulsive delayed systems but also impulsive systems with delayed impulses and impulsive systems with event triggered mechanism including their Lyapunov stability finite time stability and input to state stability synthesis Special attention is paid to the bilateral effects of the delayed impulses where comprehensive stability properties are discussed in the framework of time dependent and state dependent delays New original work with event triggered impulsive control and its applications in multi agent systems and collective dynamics are also provided This book will be of use to specialists who are interested in the theory of impulsive differential equations and impulsive control theory as well as high technology specialists who work in the fields of complex networks and applied mathematics Also instructors teaching graduate courses and graduate students will find this book a valuable source of nonlinear system theory *Kyungpook Mathematical Journal* ,1999 **Mathematical Reviews** ,2005 **Almost Periodic Solutions of Impulsive Differential Equations** Gani T. Stamov, 2012-03-08 In the present book a systematic exposition of the results related to almost periodic solutions of impulsive differential equations is given and the potential for their application is illustrated **Principles of Discontinuous Dynamical Systems** Marat Akhmet, 2010-08-26 Discontinuous dynamical systems have played an important role in both theory and applications during the last several decades This is still an area of active research and techniques to make the applications more effective are an ongoing topic of interest Principles of Discontinuous Dynamical Systems is devoted to the theory of differential equations with variable moments of impulses It introduces a new strategy of implementing an equivalence to systems whose solutions have prescribed moments of impulses and utilizing special topologies in spaces of piecewise continuous functions The achievements obtained on the basis of this approach are described in this book The text progresses systematically by covering preliminaries in the first four chapters This is followed by more complex material and special topics such as Hopf bifurcation Devaney's chaos and the shadowing property are discussed in the last two chapters This book is suitable for researchers and graduate students in mathematics and also in diverse areas such as biology computer science and engineering who deal with real world problems

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