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CONSTRUCTIVE METHODS

IN THE ANALYSIS
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Constructive Methods In The Analysis Of Nonlinear Systems

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Constructive Methods in the Analysis of Nonlinear Systems Evgenii Aleksandrovich Grebenikov, IUrii Aleksandrovich Riabov, Yu. A. Ryabov, 1997 **Constructive Methods in the Analysis of Nonlinear Systems** Evgenij Aleksandrovič Grebenikov, 1983 *Constructive methods* E. A. Grebenikov, 1983 *Constructive Methods in the Analysis of Nonlinear Systems* Evgenii Aleksandrovich Grebenikov, 1983 **Asymptotic Methods in Resonance Analytical Dynamics** Eugeniu Grebenikov, Yu. A. Mitropolsky, Y.A. Ryabov, 2004-03-02 Asymptotic Methods in Resonance Analytical Dynamics presents new asymptotic methods for the analysis and construction of solutions mainly periodic and quasiperiodic of differential equations with small parameters Along with some background material and theory behind these methods the authors also consider a variety of problems and applications in nonlinear mechanics and oscillation theory The methods examined are based on two types the generalized averaging technique of Krylov Bogolubov and the numeric analytical iterations of Lyapunov Poincaré This text provides a useful source of reference for postgraduates and researchers working in this area of applied mathematics **Multifrequency Oscillations of Nonlinear Systems** Anatolii M. Samoilenko, R. Petryshyn, 2006-04-11 In contrast to other books devoted to the averaging method and the method of integral manifolds in the present book we study oscillation systems with many varying frequencies In the process of evolution systems of this type can pass from one resonance state into another This fact considerably complicates the investigation of nonlinear oscillations In the present monograph a new approach based on exact uniform estimates of oscillation integrals is proposed On the basis of this approach numerous completely new results on the justification of the averaging method and its applications are obtained and the integral manifolds of resonance oscillation systems are studied This book is intended for a wide circle of research workers experts and engineers interested in oscillation processes as well as for students and post graduate students specialized in ordinary differential equations Generalized Inverse Operators Alexander Andreevych Boichuk, Anatolii M. Samoilenko, 2016-08-22 The book is devoted to the foundations of the theory of boundary value problems for various classes of systems of differential operator equations whose linear part is represented by Fredholm operators of the general form A A common point of view on numerous classes of problems that were traditionally studied independently of each other enables us to study in a natural way the theory of these problems to supplement and improve the existing results and in certain cases study some of these problems for the first time With the help of the technique of generalized inverse operators the Vishik Lyusternik method and iterative methods we perform a detailed investigation of the problems of existence bifurcations and branching of the solutions of linear and nonlinear boundary value problems for various classes of differential operator systems and propose new procedures for their construction For more than 11 years that have passed since the appearance of the first edition of the monograph numerous new publications of the authors in this direction have appeared In this connection it became necessary to make some additions and corrections to the previous extensively cited edition which is still

of significant interest for the researchers For researchers teachers post graduate students and students of physical and mathematical departments of universities Contents Preliminary Information Generalized Inverse Operators in Banach Spaces Pseudoinverse Operators in Hilbert Spaces Boundary Value Problems for Operator Equations Boundary Value Problems for Systems of Ordinary Differential Equations Impulsive Boundary Value Problems for Systems of Ordinary Differential Equations Solutions of Differential and Difference Systems Bounded on the Entire Real Axis Systems of Evolution Equations with Periodic and Quasiperiodic Coefficients Yuri A. Mitropolsky, Anatolii M. Samoilenko, D.I.

Martinyuk, 2012-12-06 Many problems in celestial mechanics physics and engineering involve the study of oscillating systems governed by nonlinear ordinary differential equations or partial differential equations This volume represents an important contribution to the available methods of solution for such systems The contents are divided into six chapters Chapter 1 presents a study of periodic solutions for nonlinear systems of evolution equations including differential equations with lag systems of neutral type various classes of nonlinear systems of integro differential equations etc A numerical analytic method for the investigation of periodic solutions of these evolution equations is presented In Chapters 2 and 3 problems concerning the existence of periodic and quasiperiodic solutions for systems with lag are examined For a nonlinear system with quasiperiodic coefficients and lag the conditions under which quasiperiodic solutions exist are established Chapter 4 is devoted to the study of invariant toroidal manifolds for various classes of systems of differential equations with quasiperiodic coefficients Chapter 5 examines the problem concerning the reducibility of a linear system of difference equations with quasiperiodic coefficients to a linear system of difference equations with constant coefficients Chapter 6 contains an investigation of invariant toroidal sets for systems of difference equations with quasiperiodic coefficients For mathematicians whose work involves the study of oscillating systems Applications of Fractional Calculus to Modeling in Dynamics and Chaos J. F. Gómez-Aguilar, Abdon Atangana, 2022-09-29 Applications of Fractional Calculus to Modeling in Dynamics and

Chaos aims to present novel developments trends and applications of fractional order derivatives with power law and Mittag Leffler kernel in the areas of chemistry mechanics chaos epidemiology fluid mechanics modeling and engineering Non singular and non local fractional order derivatives have been applied in different chapters to describe complex problems The book offers theory and practical applications for the solutions of real life problems and will be of interest to graduate level students educators researchers and scientists interested in mathematical modeling and its diverse applications Features Discusses real world problems theory and applications Covers new developments and advances in the various areas of nonlinear dynamics signal processing and chaos Suitable to teach master s and or PhD level graduate students and can be used by researchers from any field of the social health and physical sciences *Introduction to the General Theory of Singular Perturbations* S. A. Lomov, This book is aimed at researchers and students in physics mathematics and engineering It contains the first systematic presentation of a general approach to the integration of singularly perturbed differential

equations describing nonuniform transitions such as the occurrence of a boundary layer discontinuities boundary effects and so on The method of regularization of singular perturbations presented here can be applied to the asymptotic integration of systems of ordinary and partial differential equations **Scientific and Technical Aerospace Reports** ,1993

Applications of Functional Analysis and Operator Theory V. Hutson,J. Pym,M. Cloud,2005-02-08 Functional analysis is a powerful tool when applied to mathematical problems arising from physical situations The present book provides by careful selection of material a collection of concepts and techniques essential for the modern practitioner Emphasis is placed on the solution of equations including nonlinear and partial differential equations The assumed background is limited to elementary real variable theory and finite dimensional vector spaces Provides an ideal transition between introductory math courses and advanced graduate study in applied mathematics the physical sciences or engineering Gives the reader a keen understanding of applied functional analysis building progressively from simple background material to the deepest and most significant results Introduces each new topic with a clear concise explanation Includes numerous examples linking fundamental principles with applications Solidifies the reader s understanding with numerous end of chapter problems **Nonrecursive**

Control Design for Nonlinear Systems Chuanlin Zhang,Jun Yang,2023-06-20 Based on the authors recent advances this book focuses on a class of nonlinear systems with mismatched uncertainties disturbances and discusses their typical control problems It aims to provide a comprehensive view of the nonrecursive control theory and application guidelines Various applications on the nonrecursive synthesis of complex nonlinear systems not only greatly simplify the control design process weaken the system assumptions and reduce the conservatism of gain selection but also realize the essential detachment of control law design and Lyapunov function based stability analysis Therefore different from the classical recursive control design methods it is of significance to study the synthesis of nonlinear systems from the perspective of a new nonrecursive control framework This book discusses the following typical control problems theoretical background homogeneous systems theory review nonrecursive robust control design nonrecursive adaptive control design nonrecursive general dynamic predictive control disturbance estimation and attenuation nonrecursive stability analysis implementation theory and real life applications to series elastic actuators DC microgrids and permanent magnet synchronous motor PMSM systems under the proposed nonrecursive synthesis framework This book will be a great reference for scholars and students in the field of automation and control It will also be a useful source for control engineers and those working on anti disturbance control nonlinear output regulation nonsmooth control and other related topics Applied Mechanics Reviews ,1974 **Selected**

Water Resources Abstracts ,1968 **Recent Investigations of Differential and Fractional Equations and Inclusions** Snezhana Hristova,2021-02-22 During the past decades the subject of calculus of integrals and derivatives of any arbitrary real or complex order has gained considerable popularity and impact This is mainly due to its demonstrated applications in numerous seemingly diverse and widespread fields of science and engineering In connection with this great

importance is attached to the publication of results that focus on recent and novel developments in the theory of any types of differential and fractional differential equation and inclusions especially covering analytical and numerical research for such kinds of equations This book is a compilation of articles from a Special Issue of Mathematics devoted to the topic of Recent Investigations of Differential and Fractional Equations and Inclusions It contains some theoretical works and approximate methods in fractional differential equations and inclusions as well as fuzzy integrodifferential equations Many of the papers were supported by the Bulgarian National Science Fund under Project KP 06 N32 7 Overall the volume is an excellent witness of the relevance of the theory of fractional differential equations

Normal Modes and Localization in Nonlinear Systems Alexander F. Vakakis, 2013-06-29 The nonlinear normal modes of a parametrically excited cantilever beam are constructed by directly applying the method of multiple scales to the governing integral partial differential equation and associated boundary conditions The effect of the inertia and curvature nonlinearities and the parametric excitation on the spatial distribution of the deflection is examined The results are compared with those obtained by using a single mode discretization In the absence of linear viscous and quadratic damping it is shown that there are nonlinear normal modes as defined by Rosenberg even in the presence of a principal parametric excitation Furthermore the nonlinear mode shape obtained with the direct approach is compared with that obtained with the discretization approach for some values of the excitation frequency In the single mode discretization the spatial distribution of the deflection is assumed a priori to be given by the linear mode shape n which is parametrically excited as Equation 41 Thus the mode shape is not influenced by the nonlinear curvature and nonlinear damping On the other hand in the direct approach the mode shape is not assumed a priori the nonlinear effects modify the linear mode shape n Therefore in the case of large amplitude oscillations the single mode discretization may yield inaccurate mode shapes

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Flight Test System Identification Roger Larsson, 2019-05-15 With the demand for more advanced fighter aircraft relying on unstable flight mechanical characteristics to gain flight performance more focus has been put on model based system engineering to help with the design work The flight control system design is one important part that relies on this modeling Therefore it has become more important to develop flight mechanical models that are highly accurate in the whole flight envelope For today's modern fighter aircraft the basic flight mechanical characteristics change between linear and nonlinear as well as stable and unstable as an effect of the desired capability of advanced maneuvering at subsonic transonic and supersonic speeds This thesis combines the subject of system identification which is the art of building mathematical models of dynamical systems based on measurements with aeronautical engineering in order to find methods for identifying flight mechanical characteristics Here some challenging aeronautical identification problems estimating model parameters from flight testing are treated Two aspects are considered The first is online identification during flight testing with the intent to aid the engineers in the analysis process when looking

at the flight mechanical characteristics This will also ensure that enough information is available in the resulting test data for post flight analysis Here a frequency domain method is used An existing method has been developed further by including an Instrumental Variable approach to take care of noisy data including atmospheric turbulence and by a sensor fusion step to handle varying excitation during an experiment The method treats linear systems that can be both stable and unstable working under feedback control An experiment has been performed on a radio controlled demonstrator aircraft For this multisine input signals have been designed and the results show that it is possible to perform more time efficient flight testing compared with standard input signals The other aspect is post flight identification of nonlinear characteristics Here the properties of a parameterized observer approach using a prediction error method are investigated This approach is compared with four other methods for some test cases It is shown that this parameterized observer approach is the most robust one with respect to noise disturbances and initial offsets Another attractive property is that no user parameters have to be tuned by the engineers in order to get the best performance All methods in this thesis have been validated on simulated data where the system is known and have also been tested on real flight test data Both of the investigated approaches show promising results

Summary of Awards National Science Foundation (U.S.). Computer Science Section, 1988

Inverse system identification with applications in predistortion Ylva Jung, 2018-12-19 Models are commonly used to simulate events and processes and can be constructed from measured data using system identification The common way is to model the system from input to output but in this thesis we want to obtain the inverse of the system Power amplifiers PAs used in communication devices can be nonlinear and this causes interference in adjacent transmitting channels A prefilter called predistorter can be used to invert the effects of the PA such that the combination of predistorter and PA reconstructs an amplified version of the input signal In this thesis the predistortion problem has been investigated for outphasing power amplifiers where the input signal is decomposed into two branches that are amplified separately by highly efficient nonlinear amplifiers and then recombined We have formulated a model structure describing the imperfections in an outphasing abbrPA and the matching ideal predistorter The predistorter can be estimated from measured data in different ways Here the initially nonconvex optimization problem has been developed into a convex problem The predistorters have been evaluated in measurements The goal with the inverse models in this thesis is to use them in cascade with the systems to reconstruct the original input It is shown that the problems of identifying a model of a preinverse and a postinverse are fundamentally different It turns out that the true inverse is not necessarily the best one when noise is present and that other models and structures can lead to better inversion results To construct a predistorter for a PA for example a model of the inverse is used and different methods can be used for the estimation One common method is to estimate a postinverse and then using it as a preinverse making it straightforward to try out different model structures Another is to construct a model of the system and then use it to estimate a preinverse in a second step This method identifies the inverse in the setup it will be used but leads

to a complicated optimization problem. A third option is to model the forward system and then invert it. This method can be understood using standard identification theory in contrast to the ones above but the model is tuned for the forward system not the inverse. Models obtained using the various methods capture different properties of the system and a more detailed analysis of the methods is presented for linear time invariant systems and linear approximations of block oriented systems. The theory is also illustrated in examples. When a preinverse is used the input to the system will be changed and typically the input data will be different than the original input. This is why the estimation of preinverses is more complicated than for postinverses and one set of experimental data is not enough. Here we have shown that identifying a preinverse in series with the system in repeated experiments can improve the inversion performance.

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