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Nonlinear Systems Computational Solution of Nonlinear Systems of Equations Nonlinear Systems Analysis Numerical Solution of Systems of Nonlinear Algebraic Equations Numerical Solution of Systems of Nonlinear Algebraic Equations Computational Solution of Nonlinear Systems of Equations Asymptotic Solutions of Strongly Nonlinear Systems of Differential Equations Solving Nonlinear Partial Differential Equations with Maple and Mathematica Nonlinear Differential Equations and Dynamical Systems Nonlinear Differential Equations Nonlinear Systems Iterative Solution of Nonlinear Systems of Equations Perturbed Functional Iterations Uniform Output Regulation of Nonlinear Systems Notes on Nonlinear Systems Nonlinear Differential Equations and Dynamical Systems Separation of Variables and Exact Solutions to Nonlinear PDEs Stabilization and Regulation of Nonlinear Systems Global Solutions of Nonlinear Schrödinger Equations Numerical Solutions of Three Classes of Nonlinear Parabolic Integro-Differential Equations Optimal Solution of Nonlinear Equations Regularity and Stochasticity of Nonlinear Dynamical Systems Strongly Nonlinear Oscillators Nonlinear Control Systems Nonlinear Systems Nonlinear System Guidance in the Presence of Transmission Zero Dynamics Design Analysis Nonlinear Partial Differential Equations for Scientists and Engineers Iterative Solution of Nonlinear Systems of Equations Qualitative and Quantitative Analysis of Nonlinear Systems Analytical Routes to Chaos in Nonlinear Engineering Nonlinear Control Systems II The Monte Carlo Solution of Nonlinear Systems Modeling and Control of Uncertain Nonlinear Systems with Fuzzy Equations and Z-Number Nonlinear Systems The Numerical Solution of Nonlinear Problems Nonlinear Ordinary Differential Equations: Problems and Solutions:A Sourcebook for Scientists and Engineers Stability Analysis of Nonlinear Systems Nonlinear Systems Reduction of Nonlinear Control Systems

Nonlinear Systems

1992-06-26

the theories of bifurcation chaos and fractals as well as equilibrium stability and nonlinear oscillations are part of the theory of the evolution of solutions of nonlinear equations a wide range of mathematical tools and ideas are drawn together in the study of these solutions and the results applied to diverse and countless problems in the natural and social sciences even philosophy the text evolves from courses given by the author in the uk and the united states it introduces the mathematical properties of nonlinear systems mostly difference and differential equations as an integrated theory rather than presenting isolated fashionable topics topics are discussed in as concrete a way as possible and worked examples and problems are used to explain motivate and illustrate the general principles the essence of these principles rather than proof or rigour is emphasized more advanced parts of the text are denoted by asterisks and the mathematical prerequisites are limited to knowledge of linear algebra and advanced calculus thus making it ideally suited to both senior undergraduates and postgraduates from physics engineering chemistry meteorology etc as well as mathematics

Computational Solution of Nonlinear Systems of Equations

1990-04-03

nonlinear equations arise in essentially every branch of modern science engineering and mathematics however in only a very few special cases is it possible to obtain useful solutions to nonlinear equations via analytical calculations as a result many scientists resort to computational methods this book contains the proceedings of the joint ams siam summer seminar computational solution of nonlinear systems of equations held in july 1988 at colorado state university the aim of the book is to give a wide ranging survey of essentially all of the methods which comprise currently active areas of research in the computational solution of systems of nonlinear equations a number of entry level survey papers were solicited and a series of test problems has been collected in an appendix most of the articles are accessible to students who have had a course in numerical analysis

Nonlinear Systems Analysis

2002-10-01

this text provides a rigorous mathematical analysis of the behavior of nonlinear control systems under a variety of situations

Numerical Solution of Systems of Nonlinear Algebraic Equations

1973

numerical solution of systems of nonlinear algebraic equations contains invited lectures of the nsf cbms regional conference on the numerical solution of nonlinear algebraic systems with applications to problems in physics engineering and economics held on july 10 14 1972 this book is composed of 10 chapters and begins with the concepts of nonlinear algebraic equations in continuum mechanics the succeeding chapters deal with the numerical solution of quasilinear elliptic equations the nonlinear systems in semi infinite programming and the solution of large systems of linear algebraic equations these topics are followed by a survey of some computational techniques for the nonlinear least squares problem the remaining chapters explore the problem of nonlinear functional minimization the modification methods and the computer oriented algorithms for solving system these chapters also examine the principles of contractor theory of solving equations this book will prove useful to undergraduate and graduate students

Numerical Solution of Systems of Nonlinear Algebraic Equations

2014-05-10

nonlinear equations arise in essentially every branch of modern science engineering and mathematics however in only a very few special cases is it possible to obtain useful solutions to nonlinear equations via analytical calculations as a result many scientists resort to computational methods this book contains the proceedings of the joint ams siam summer seminar computational solution of nonlinear systems of equations held in july 1988 at colorado state university the aim of the book is to give a wide ranging survey of essentially all of the methods which comprise currently active areas of research in the computational solution of systems of nonlinear equations a number of entry level survey papers were solicited and a series of test problems has been collected in an appendix most of the articles are accessible to students who have had a course in numerical analysis

Computational Solution of Nonlinear Systems of Equations

1990

the book is dedicated to the construction of particular solutions of systems of ordinary differential equations in the form of series that are analogous to those used in lyapunov s first method a prominent place is given to asymptotic solutions that tend to an equilibrium position especially in the strongly nonlinear case where the existence of such solutions can t be inferred on the basis of the first approximation alone the book is illustrated with a large number of concrete examples of systems in which the presence of a particular solution of a certain class is related to special properties of the system s dynamic behavior it is a book for students and specialists who

work with dynamical systems in the fields of mechanics mathematics and theoretical physics

Asymptotic Solutions of Strongly Nonlinear Systems of Differential Equations

2013-01-13

the emphasis of the book is given in how to construct different types of solutions exact approximate analytical numerical graphical of numerous nonlinear pdes correctly easily and quickly the reader can learn a wide variety of techniques and solve numerous nonlinear pdes included and many other differential equations simplifying and transforming the equations and solutions arbitrary functions and parameters presented in the book numerous comparisons and relationships between various types of solutions different methods and approaches are provided the results obtained in maple and mathematica facilitates a deeper understanding of the subject among a big number of cas we choose the two systems maple and mathematica that are used worldwide by students research mathematicians scientists and engineers as in the our previous books we propose the idea to use in parallel both systems maple and mathematica since in many research problems frequently it is required to compare independent results obtained by using different computer algebra systems maple and or mathematica at all stages of the solution process one of the main points related to cas is based on the implementation of a whole solution method e g starting from an analytical derivation of exact governing equations constructing discretizations and analytical formulas of a numerical method performing numerical procedure obtaining various visualizations and comparing the numerical solution obtained with other types of solutions considered in the book e g with asymptotic solution

Solving Nonlinear Partial Differential Equations with Maple and Mathematica

2011-07-24

this special edition contains new results on differential and integral equations and systems covering higher order initial and boundary value problems fractional differential and integral equations and applications non local optimal control inverse and higher order nonlinear boundary value problems distributional solutions in the form of a finite series of the dirac delta function and its derivatives asymptotic properties oscillatory theory for neutral nonlinear differential equations the existence of extremal solutions via monotone iterative techniques predator prey interaction via fractional order models among others our main goal is not only to show new trends in this field but also to showcase and provide new methods and techniques that can lead to future research

Nonlinear Differential Equations and Dynamical Systems

2021-04-15

detailed treatment covers existence and uniqueness of a solution of the initial value problem properties of solutions properties of linear systems stability of nonlinear systems and two dimensional systems 1962 edition

Nonlinear Differential Equations

2018-01-16

a non linear system is a set of nonlinear equations which may be algebraic ordinary differential partial differential fractional integral or a combination of these especially nowadays the term dynamical system is used as a synonym of nonlinear systems where the nonlinear equations represent the evolution of a solution over time so the notion of dynamical systems arose following the name of equations governing the motion of a system of particles even though the nonlinear system may have no application to mechanics also from an engineering point of view a nonlinear system may be represented with a feedback loop in which the output of an element is not proportional to its input over the last few decades nonlinear systems have been used to describe a great variety of phenomena in social and life sciences as well as in physical sciences and engineering the theory of nonlinear systems has applications to problems of population growth economics chemical reactions celestial mechanics physiology of nerves onset of turbulence regulation of heartbeats electronic circuits cryptography secure communications and many others nonlinear dynamical systems which present chaotic behaviour are of great importance due to their applications in science and engineering chaotic systems are nonlinear dynamical systems and maps that are highly sensitive to initial conditions the sensitivity of initial conditions is usually called the butterfly effect for dynamical systems and maps so nowadays the design and analysis of nonlinear systems and especially chaotic systems has gained the interest of the research community due to the fact that many phenomena on financial physical biological chemical mechanical and engineering systems can be modelled and studied through the perspective of non linear dynamics these nonlinear systems can be modelled by discrete time or continuous time mathematical models this book aims to bridge the gap between the design analysis and applications which are the two research stages on the progress of nonlinear systems and also which open up some new directions of real applications where chaos can be put up to technological use including secure communication systems electronic circuits design memristors and radar finally this book can serve as an updated and handy reference for university professors graduate students laboratory researchers as well as physicists and applied mathematicians who are interested in studying the chaos and its applications through the field of nonlinear systems

Nonlinear Systems

2017

a

Iterative Solution of Nonlinear Systems of Equations

2006-11-15

perturbed functional iterations pfi is a large scale nonlinear system solver nature is abundant with events simulated mathematically by nonlinear systems of equations and inequalities these we call nonlinear models often they are ill conditioned meaning small changes in data causing huge changes in the output pfi previously called the perturbed iterative scheme pis is a numerical method to solve nonlinear systems of equations in multidimensional space computational results demonstrate that this numerical method has some unique features which have made it more practical for applications in engineering and applied mathematics this book will guide readers in the proper use of pfi both in theoretical and practical settings features ideal resource for postgraduates and professional researchers in science and engineering working in nonlinear systems algorithmically simple enough for engineers and applied scientists to write their own software based on the contents

Perturbed Functional Iterations

2024-06-28

this study of the nonlinear output regulation problem embraces local as well as global cases covering such aspects as controller design and practical implementation issues from the reviews the authors treat the problem of output regulation for a nonlinear control system they develop a global approach to output regulation along familiar lines i found the book to be ambitious and rigorous tackling some hard conceptual issues ieee transactions on automatic control

Uniform Output Regulation of Nonlinear Systems

2006-07-27

for lecture courses that cover the classical theory of nonlinear differential equations associated with poincare and lyapunov and introduce the student to the ideas of bifurcation theory and chaos this text is ideal its excellent pedagogical style typically consists of an insightful overview followed by theorems illustrative examples and exercises

Notes on Nonlinear Systems

1972

separation of variables and exact solutions to nonlinear pdes is devoted to describing and applying methods of generalized and functional separation of variables used to find exact solutions of nonlinear partial differential equations pdes it also presents the direct method of symmetry reductions and its more general version in addition the authors describe the differential constraint method which generalizes many other exact methods the presentation involves numerous examples of utilizing the methods to find exact solutions to specific nonlinear equations of mathematical physics the equations of heat and mass transfer wave theory hydrodynamics nonlinear optics combustion theory chemical technology biology and other disciplines are studied particular attention is paid to nonlinear equations of a reasonably general form that depend on one or several arbitrary functions such equations are the most difficult to analyze their exact solutions are of significant practical interest as they are suitable to assess the accuracy of various approximate analytical and numerical methods the book contains new material previously unpublished in monographs it is intended for a broad audience of scientists engineers instructors and students specializing in applied and computational mathematics theoretical physics mechanics control theory chemical engineering science and other disciplines individual sections of the book and examples are suitable for lecture courses on partial differential equations equations of mathematical physics and methods of mathematical physics for delivering special courses and for practical training

Nonlinear Differential Equations and Dynamical Systems

2006-02-20

the core of this textbook is a systematic and self contained treatment of the nonlinear stabilization and output regulation problems its coverage embraces both fundamental concepts and advanced research outcomes and includes many numerical and practical examples several classes of important uncertain nonlinear systems are discussed the state of the art solution presented uses robust and adaptive control design ideas in an integrated approach which demonstrates connections between global stabilization and global output regulation allowing both to be treated as stabilization problems stabilization and regulation of nonlinear systems takes advantage of rich new results to give students up to date instruction in the central design problems of nonlinear control problems which are a driving force behind the furtherance of modern control theory and its application the diversity of systems in which stabilization and output regulation become significant concerns in the mathematical formulation of practical control solutions whether in disturbance rejection in flying vehicles or synchronization of lorenz systems with harmonic systems makes the text relevant to readers from a wide variety of backgrounds many exercises are provided to facilitate study and solutions are freely available to instructors via a download from springerextras com striking a balance between rigorous mathematical treatment and engineering practicality stabilization and regulation of nonlinear systems is an ideal text for graduate students from many engineering and applied mathematical disciplines seeking a contemporary course in nonlinear control practitioners and academic theorists will also find this book a useful reference on recent thinking in this field

Separation of Variables and Exact Solutions to Nonlinear PDEs

2021-09-19

this book describes three classes of nonlinear partial integro differential equations these models arise in electromagnetic diffusion processes and heat flow in materials with memory mathematical modeling of these processes is briefly described in the first chapter of the book investigations of the described equations include theoretical as well as approximation properties qualitative and quantitative properties of solutions of initial boundary value problems are performed therafter all statements are given with easy understandable proofs for approximate solution of problems different varieties of numerical methods are investigated comparison analyses of those methods are carried out for theoretical results the corresponding graphical illustrations are included in the book at the end of each chapter topical bibliographies are provided investigations of the described equations include theoretical as well as approximation properties detailed references enable further independent study easily understandable proofs describe real world processes with mathematical rigor

Stabilization and Regulation of Nonlinear Systems

2014-08-30

optimal solution of nonlinear equations is a text monograph designed to provide an overview of optimal computational methods for the solution of nonlinear equations fixed points of contractive and noncontractive mapping and for the computation of the topological degree it is of interest to any reader working in the area of information based complexity the worst case settings are analyzed here several classes of functions are studied with special emphasis on tight complexity bounds and methods which are close to or achieve these bounds each chapter ends with exercises including companies and open ended research based exercises

Global Solutions of Nonlinear Schrödinger Equations

1999

this book presents recent developments in nonlinear dynamics and physics with an emphasis on complex systems the contributors provide recent theoretic developments and new techniques to solve nonlinear dynamical systems and help readers understand complexity stochasticity and regularity in nonlinear dynamical systems this book covers integro differential equation solvability poincare recurrences in ergodic systems orientable horseshoe structure analytical routes of periodic motions to chaos grazing on impulsive differential equations from chaos to order in coupled oscillators and differential invariant solutions for automorphic systems inequality under uncertainty

Numerical Solutions of Three Classes of Nonlinear Parabolic Integro-Differential Equations

2015-11-21

this book provides the presentation of the motion of pure nonlinear oscillatory systems and various solution procedures which give the approximate solutions of the strong nonlinear oscillator equations the book presents the original author s method for the analytical solution procedure of the pure nonlinear oscillator system after an introduction the physical explanation of the pure nonlinearity and of the pure nonlinear oscillator is given the analytical solution for free and forced vibrations of the one degree of freedom strong nonlinear system with constant and time variable parameter is considered special attention is given to the one and two mass oscillatory systems with two degrees of freedom the criteria for the deterministic chaos in ideal and non ideal pure nonlinear oscillators are derived analytically the method for suppressing chaos is developed important problems are discussed in didactic exercises the book is self consistent and suitable as a textbook for students and also for professionals and engineers who apply these techniques to the field of nonlinear oscillations

Optimal Solution of Nonlinear Equations

2001-01-18

the purpose of this book is to present a self contained description of the fun damentals of the theory of nonlinear control systems with special emphasis on the differential geometric approach the book is intended as a graduate text as weil as a reference to scientists and engineers involved in the analysis and design of feedback systems the first version of this book was written in 1983 while i was teach ing at the department of systems science and mathematics at washington university in st louis this new edition integrates my subsequent teaching experience gained at the university of illinois in urbana champaign in 1987 at the carl cranz gesellschaft in oberpfaffenhofen in 1987 at the university of california in berkeley in 1988 in addition to a major rearrangement of the last two chapters of the first version this new edition incorporates two additional chapters at a more elementary level and an exposition of some relevant research findings which have occurred since 1985

Regularity and Stochasticity of Nonlinear Dynamical Systems

2017-06-24

this book is written is such a way that the level of mathematical sophistication builds up from chapter to chapter it has been reorganized

into four parts basic analysis analysis of feedback systems advanced analysis and nonlinear feedback control updated content includes subjects which have proven useful in nonlinear control design in recent years new in the 3rd edition are expanded treatment of passivity and passivity based control integral control high gain feedback recursive methods optimal stabilizing control control lyapunov functions and observers for use as a self study or reference guide by engineers and applied mathematicians

Strongly Nonlinear Oscillators

2014-05-22

a 1999 text for graduate students and practising engineers introducing mathematical modeling of engineering systems

Nonlinear Control Systems

2013-04-17

the revised and enlarged third edition of this successful book presents a comprehensive and systematic treatment of linear and nonlinear partial differential equations and their varied and updated applications in an effort to make the book more useful for a diverse readership updated modern examples of applications are chosen from areas of fluid dynamics gas dynamics plasma physics nonlinear dynamics quantum mechanics nonlinear optics acoustics and wave propagation nonlinear partial differential equations for scientists and engineers third edition improves on an already highly complete and accessible resource for graduate students and professionals in mathematics physics science and engineering it may be used to great effect as a course textbook research reference or self study guide

Nonlinear Systems

1992

here the authors present modern methods of analysis for nonlinear systems which may occur in fields such as physics chemistry biology or economics they concentrate on the following topics specific for such systems a constructive existence results and regularity theorems for all weak solutions b convergence results for solutions and their approximations c uniform global behavior of solutions in time and d pointwise behavior of solutions for autonomous problems with possible gaps by the phase variables the general methodology for the investigation of dissipative dynamical systems with several applications including nonlinear parabolic equations of divergent form nonlinear stochastic equations of parabolic type unilateral problems nonlinear pdes on riemannian manifolds with or without boundary contact problems as well as particular examples is established as such the book is addressed to a wide circle of mathematical mechanical and engineering readers

Nonlinear System Guidance in the Presence of Transmission Zero Dynamics

1995

nonlinear problems are of interest to engineers physicists and mathematicians and many other scientists because most systems are inherently nonlinear in nature as nonlinear equations are difficult to solve nonlinear systems are commonly approximated by linear equations this works well up to some accuracy and some range for the input values but some interesting phenomena such as chaos and singularities are hidden by linearization and perturbation analysis it follows that some aspects of the behavior of a nonlinear system appear commonly to be chaotic unpredictable or counterintuitive although such a chaotic behavior may resemble a random behavior it is absolutely deterministic analytical routes to chaos in nonlinear engineering discusses analytical solutions of periodic motions to chaos or quasi periodic motions in nonlinear dynamical systems in engineering and considers engineering applications design and control it systematically discusses complex nonlinear phenomena in engineering nonlinear systems including the periodically forced duffing oscillator nonlinear self excited systems nonlinear parametric systems and nonlinear rotor systems nonlinear models used in engineering are also presented and a brief history of the topic is provided key features considers engineering applications design and control presents analytical techniques to show how to find the periodic motions to chaos in nonlinear dynamical systems systematically discusses complex nonlinear phenomena in engineering nonlinear systems presents extensively used nonlinear models in engineering analytical routes to chaos in nonlinear engineering is a practical reference for researchers and practitioners across engineering mathematics and physics disciplines and is also a useful source of information for graduate and senior undergraduate students in these areas

Design Analysis

1999-01-13

this eagerly awaited follow up to nonlinear control systems incorporates recent advances in the design of feedback laws for the purpose of globally stabilizing nonlinear systems via state or output feedback the author is one of the most prominent researchers in the field

Nonlinear Partial Differential Equations for Scientists and Engineers

2011-10-06

an original systematic solution approach to uncertain nonlinear systems control and modeling using fuzzy equations and fuzzy differential equations there are various numerical and analytical approaches to the modeling and control of uncertain nonlinear systems fuzzy logic theory is an increasingly popular method used to solve inconvenience problems in nonlinear modeling modeling and control

of uncertain nonlinear systems with fuzzy equations and z number presents a structured approach to the control and modeling of uncertain nonlinear systems in industry using fuzzy equations and fuzzy differential equations the first major work to explore methods based on neural networks and bernstein neural networks this innovative volume provides a framework for control and modeling of uncertain nonlinear systems with applications to industry readers learn how to use fuzzy techniques to solve scientific and engineering problems and understand intelligent control design and applications the text assembles the results of four years of research on control of uncertain nonlinear systems with dual fuzzy equations fuzzy modeling for uncertain nonlinear systems with fuzzy equations the numerical solution of fuzzy equations with z numbers and the numerical solution of fuzzy differential equations with z numbers using clear and accessible language to explain concepts and principles applicable to real world scenarios this book presents the modeling and control of uncertain nonlinear systems with fuzzy equations and fuzzy differential equations includes an overview of uncertain nonlinear systems for non specialists teaches readers to use simulation modeling and verification skills valuable for scientific research and engineering systems development reinforces comprehension with illustrations tables examples and simulations modeling and control of uncertain nonlinear systems with fuzzy equations and z number is suitable as a textbook for advanced students academic and industrial researchers and practitioners in fields of systems engineering learning control systems neural networks computational intelligence and fuzzy logic control

Iterative Solution of Nonlinear Systems of Equations

2014-01-15

there has been much excitement over the emergence of new mathematical techniques for the analysis and control of nonlinear systems in addition great technological advances have bolstered the impact of analytic advances and produced many new problems and applications which are nonlinear in an essential way this book lays out in a concise mathematical framework the tools and methods of analysis which underlie this diversity of applications

Qualitative and Quantitative Analysis of Nonlinear Systems

2017-07-11

an ideal companion to the new 4th edition of nonlinear ordinary differential equations by jordan and smith oup 2007 this text contains over 500 problems and fully worked solutions in nonlinear differential equations with 272 figures and diagrams subjects covered include phase diagrams in the plane classification of equilibrium points geometry of the phase plane perturbation methods forced oscillations stability mathieu s equation liapunov methods bifurcationsand manifolds homoclinic bifurcation and melnikov s method the problems are of variable difficulty some are routine questions others are longer and expand on concepts discussed in nonlinear ordinary differential equations 4th edition and in most cases can be adapted for coursework or self study both texts cover a wide variety of

applications whilst keeping mathematical prequisites to a minimum making these an ideal resource for students and lecturers in engineering mathematics and the sciences

Analytical Routes to Chaos in Nonlinear Engineering

2014-05-23

the book investigates stability theory in terms of two different measure exhibiting the advantage of employing families of lyapunov functions and treats the theory of a variety of inequalities clearly bringing out the underlying theme it also demonstrates manifestations of the general lyapunov method showing how this technique can be adapted to various apparently diverse nonlinear problems furthermore it discusses the application of theoretical results to several different models chosen from real world phenomena furnishing data that is particularly relevant for practitioners stability analysis of nonlinear systems is an invaluable single sourse reference for industrial and applied mathematicians statisticians engineers researchers in the applied sciences and graduate students studying differential equations

Nonlinear Control Systems II

2012-12-06

advances in science and technology necessitate the use of increasingly complicated dynamic control processes undoubtedly sophisticated mathematical models are also concurrently elaborated for these processes in particular linear dynamic control systems ij ay bu y e m c rn u e rt 1 where a and b are constants are often abandoned in favor of nonlinear dynamic control systems 2 which in addition contain a large number of equations the solution of problems for multidimensional nonlinear control systems en counters serious difficulties which are both mathematical and technical in nature therefore it is imperative to develop methods of reduction of nonlinear systems to a simpler form for example decomposition into systems of lesser dimension approaches to reduction are diverse in particular techniques based on approxi mation methods in this monograph we elaborate the most natural and obvious in our opinion approach which is essentially inherent in any theory of math ematical entities for instance in the theory of linear spaces theory of groups etc reduction in our interpretation is based on assigning to the initial object an isomorphic object a quotient object and a subobject in the theory of linear spaces for instance reduction consists in reducing to an isomorphic linear space quotient space and subspace strictly speaking the exposition of any mathemat ical theory essentially begins with the introduction of these reduced objects and determination of their basic properties in relation to the initial object

The Monte Carlo Solution of Nonlinear Systems

1975

Modeling and Control of Uncertain Nonlinear Systems with Fuzzy Equations and Z-Number

2019-07-10

Nonlinear Systems

2013-04-18

The Numerical Solution of Nonlinear Problems

1981

Nonlinear Ordinary Differential Equations: Problems and Solutions:A Sourcebook for Scientists and Engineers

2007-08-23

Stability Analysis of Nonlinear Systems

2015-12-29

Nonlinear Systems

1968

Reduction of Nonlinear Control Systems

1999-02-28

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