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SCIENTIFIC AND TECHNICAL AEROSPACE REPORTS

APPLIED MECHANICS REVIEWS

TECHNICAL ABSTRACT BULLETIN

CLASSICAL FEEDBACK CONTROL

WITH MATLAB® AND SIMULINK®, SECOND EDITION

CRC Press *This second edition textbook describes the design and implementation of high-performance feedback controllers for engineering systems. It emphasizes the frequency-domain design and methods based on Bode integrals, loop shaping, and nonlinear dynamic compensation. The authors include many problems and offer practical applications, illustrations, and plots with MATLAB*

simulation and design examples. This text contains homework problems accompanied by actual solutions. Examples include case studies and real-world situations.

INDUSTRIAL CRYSTALLIZATION

PROCESS SIMULATION ANALYSIS AND DESIGN

Springer Science & Business Media *Incorporating all recent developments and applications of crystallization technology, this volume offers a clear account of the field's underlying principles, reviews of past and current research, and provides guidelines for equipment and process design. The book takes a balanced functional approach in its critical survey of research literature, and includes several problems based on real practical situations that illustrate theoretical development. Several new concepts and techniques used in process simulation and identification analysis are featured.*

IEEE TENCOM '02 [SIC]

2002 IEEE REGION 10 CONFERENCE ON COMPUTERS, COMMUNICATIONS, CONTROL, AND POWER ENGINEERING: OCTOBER 28-31, 2002, BEIJING, CHINA

I E E E

FUNCTIONAL ADAPTIVE CONTROL

AN INTELLIGENT SYSTEMS APPROACH

Springer Science & Business Media *Unique in its systematic approach to stochastic systems, this book presents a wide range of techniques that lead to novel strategies for effecting intelligent control of complex systems that are typically characterised by uncertainty, nonlinear dynamics, component failure, unpredictable disturbances, multi-modality and high dimensional spaces.*

NONLINEAR SYSTEMS ANALYSIS

SECOND EDITION

SIAM *When M. Vidyasagar wrote the first edition of Nonlinear Systems Analysis, most control theorists considered the subject of*

nonlinear systems a mystery. Since then, advances in the application of differential geometric methods to nonlinear analysis have matured to a stage where every control theorist needs to possess knowledge of the basic techniques because virtually all physical systems are nonlinear in nature. The second edition, now republished in SIAM's Classics in Applied Mathematics series, provides a rigorous mathematical analysis of the behavior of nonlinear control systems under a variety of situations. It develops nonlinear generalizations of a large number of techniques and methods widely used in linear control theory. The book contains three extensive chapters devoted to the key topics of Lyapunov stability, input-output stability, and the treatment of differential geometric control theory. Audience: this text is designed for use at the graduate level in the area of nonlinear systems and as a resource for professional researchers and practitioners working in areas such as robotics, spacecraft control, motor control, and power systems.

COURSES AND DEGREES

RESEARCH IN PROGRESS

FREQUENCY-RESPONSE METHODS IN CONTROL SYSTEMS

IEEE Computer Society Press

REACTOR AND FUEL-PROCESSING TECHNOLOGY

DISCRETE DYNAMICAL MODELS

Springer *This book provides an introduction to the analysis of discrete dynamical systems. The content is presented by an unitary approach that blends the perspective of mathematical modeling together with the ones of several discipline as Mathematical Analysis, Linear Algebra, Numerical Analysis, Systems Theory and Probability. After a preliminary discussion of several models, the main tools for the study of linear and non-linear scalar dynamical systems are presented, paying particular attention to the stability analysis. Linear difference equations are studied in detail and an elementary introduction of Z and Discrete Fourier Transform is presented. A whole chapter is devoted to the study of bifurcations and chaotic dynamics. One-step vector-valued dynamical systems are the subject of three chapters, where the reader can find the applications to positive systems, Markov chains, networks and search engines. The book is addressed mainly to students in Mathematics, Engineering, Physics, Chemistry, Biology and Economics. The exposition is self-contained: some appendices present prerequisites, algorithms and suggestions for computer simulations. The analysis of several examples is enriched by the proposition of many related exercises of increasing difficulty; in the last chapter the*

detailed solution is given for most of them.

GRANTS AND AWARDS FOR THE FISCAL YEAR ENDED ...

INPUT-TO-STATE STABILITY FOR PDES

Springer *This book lays the foundation for the study of input-to-state stability (ISS) of partial differential equations (PDEs) predominantly of two classes—parabolic and hyperbolic. This foundation consists of new PDE-specific tools. In addition to developing ISS theorems, equipped with gain estimates with respect to external disturbances, the authors develop small-gain stability theorems for systems involving PDEs. A variety of system combinations are considered: PDEs (of either class) with static maps; PDEs (again, of either class) with ODEs; PDEs of the same class (parabolic with parabolic and hyperbolic with hyperbolic); and feedback loops of PDEs of different classes (parabolic with hyperbolic). In addition to stability results (including ISS), the text develops existence and uniqueness theory for all systems that are considered. Many of these results answer for the first time the existence and uniqueness problems for many problems that have dominated the PDE control literature of the last two decades, including—for PDEs that include non-local terms—backstepping control designs which result in non-local boundary conditions. Input-to-State Stability for PDEs will interest applied mathematicians and control specialists researching PDEs either as graduate students or full-time academics. It also contains a large number of applications that are at the core of many scientific disciplines and so will be of importance for researchers in physics, engineering, biology, social systems and others.*

RECENT ADVANCES IN ROBUST CONTROL

Institute of Electrical & Electronics Engineers(IEEE)

U.S. GOVERNMENT RESEARCH & DEVELOPMENT REPORTS

CONTROLLING CHAOS AND BIFURCATIONS IN ENGINEERING SYSTEMS

CRC Press *Over the last two decades, chaos in engineering systems has moved from being simply a curious phenomenon to one with real, practical significance and utility. Engineers, scientists, and mathematicians have similarly advanced from the passive role of analyzing chaos to their present, active role of controlling chaos-control directed not only at suppression, but also at exploiting its enormous potential. We now stand at the threshold of major advances in the control and synchronization of chaos for new applications across the range of engineering disciplines. Controlling Chaos and Bifurcations in Engineering Systems provides a state-of-the-art*

survey of the control-and anti-control-of chaos in dynamical systems. Internationally known experts in the field join forces in this volume to form this tutorial-style combination of overview and technical report on the latest advances in the theory and applications of chaos control. They detail various approaches to control and show how designers can use chaos to create a wider variety of properties and greater flexibility in the design process. Chaos control promises to have a major impact on novel time- and energy-critical engineering applications. Within this volume, readers will find many challenging problems-yet unsolved-regarding both the fundamental theory and potential applications of chaos control and anti-control. Controlling Chaos and Bifurcations in Engineering Systems will bring readers up-to-date on recent development in the field and help open the door to new advances.

PROCEEDINGS OF THE TWENTY-EIGHTH SOUTHEASTERN SYMPOSIUM ON SYSTEM THEORY, MARCH 31-APRIL 2, 1996, BATON ROUGE, LOUISIANA

IEEE Computer Society

GOVERNMENT REPORTS ANNOUNCEMENTS

SCIENCE ABSTRACTS

ELECTRICAL ENGINEERING ABSTRACTS

THE ANNUAL CATALOGUE OF PURDUE UNIVERSITY, LAFAYETTE, INDIANA ... WITH ANNOUNCEMENTS FOR ...

SUPERVISION AND SAFETY OF COMPLEX SYSTEMS

John Wiley & Sons *This book presents results of projects carried out by both scientific and industry researchers into the techniques to help in maintenance, control, supervision and security of systems, taking into account the technical environmental and human factors. This work is supported by the Scientific Group GIS 3SGS. It is a collaborative work from 13 partners (academic and industrial) who have come together to deal with security problems. The problems and techniques discussed mainly focus on stochastic and dynamic modeling, maintenance, forecasting, diagnosis, reliability, performance, organizational, human and environmental factors, uncertainty and experience feedback.*

NONLINEAR DIFFERENTIAL EQUATIONS IN MICRO/NANO MECHANICS

APPLICATION IN MICRO/NANO STRUCTURES AND ELECTROMECHANICAL SYSTEMS

Elsevier *Small-scale continuum mechanics theories are powerful tools for modelling miniature structures. By solving the governing equations of structural motion, the physical behaviour of these systems such as static behaviour, vibration and instability can be studied. However, this approach leads to strongly nonlinear ordinary or partial differential equations; there are usually no analytical solutions for these equations. This book presents a variety of various efficient methods, including Homotopy methods, Adomian methods, reduced order methods, numerical methods, for solving the nonlinear governing equation of micro/nanostructures. Various structures including beam type micro/nano-electromechanical systems (MEMS/NEMS), carbon nanotube and graphene actuators, nano-tweezers, nano-bridges, plate-type microsystems and rotational micromirrors are modelled. Nonlinearity due to physical phenomena such as dispersion forces, damping, surface energies, microstructure-dependency, non-classic boundary conditions and geometry, fluid-solid interactions, elctromechanical instability, electromagnetic instability, nonlocal and size-dependency, are considered in the governing equations. For each solution method several examples are solved in order to better understanding the proposed methods. This is an important resource for both materials scientists and mechanical engineers, who want to understand more about the underlying theories of nanostructure mechanical behaviour.*

MATHEMATICAL REVIEWS

SHALLOW FLOWS

RESEARCH PRESENTED AT THE INTERNATIONAL SYMPOSIUM ON SHALLOW FLOWS, DELFT, NETHERLANDS, 2003

CRC Press *This text presents the key findings of the International Symposium held in Delft in 2003, which explored the process of shallow flows. Shallow flows are found in lowland rivers, lakes, estuaries, bays, coastal areas and in density-stratified atmospheres, and may be observed in puddles, as in oceans. They impact on the life and work of a w*

ANNOUNCEMENTS FOR THE YEARS ...

UTIAS REPORT

ANNOUNCEMENT

DYNAMICAL SYSTEMS WITH APPLICATIONS USING MATLAB®

Springer Science & Business Media *This introduction to dynamical systems theory guides readers through theory via example and the graphical MATLAB interface; the SIMULINK® accessory is used to simulate real-world dynamical processes. Examples included are from mechanics, electrical circuits, economics, population dynamics, epidemiology, nonlinear optics, materials science and neural networks. The book contains over 330 illustrations, 300 examples, and exercises with solutions.*

PHYSICOCHEMICAL HYDRODYNAMICS

INTERFACIAL PHENOMENA ; [PROCEEDINGS OF A NATO ADVANCED STUDY INSTITUTE ON PHYSICOCHEMICAL HYDRODYNAMICS: INTERFACIAL PHENOMENA, HELD JULY 1 - 11, 1986, AND OF THE SECOND EPS LIQUID STATE CONFERENCE, HELD JULY 12 - 15, 1986, IN LA RABIDA, HUELVA, SPAIN]

Springer Science & Business Media *This book contains lecture notes and invited contributions presented at the NATO Advanced Study Institute and EPS Liquid State Conference on PHYSICOCHEMICAL HYDRODYNAMICS-PCH: INTERFACIAL PHENOMENA that were held July 1-15, 1986, in LA RABIDA (Huelva) SPAIN. Although we are aware of the difficulty in organizing the contents due to the broad and multidisciplinary aspects of PCH-Interfacial Phenomena, we have tried to accomodate papers by topics and have not followed the order in the presentation at the meetings. There is also no distinction between the ASI notes and Conference papers. We have done our best to offer a coverage as complete as possible of the field. However, we had difficulties coming from the fact that some authors were so busy that either did not find time to submit their contribution or did not have time to write a comprehensive paper. We also had to cope with very late arrivals, postdeadline valuable contributions that we felt had to be included here. Our gratitude goes to the NATO Scientific Affairs Division for its economic support and to the EPS Liquid State Committee for its sponsorship. Financial support also came from Asociacion Industrias Quimicas-Huelva (Spain), Caycit-Ministerio De Educacion Y Ciencia (Spain), Canon-Espana (Spain), Citibank-Espana (Spain), CNLS-Los Alamos Nat. Lab. (U. S. A.), CSIC (Spain), EPS, ERT (Spain), ESA, Fotonica (Spain), IBM-Espana (Spain), Junta De Andalucia (Spain), NATO, NSF (U. S. A.), ONR-London (U. S. A.*

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PHYSIKALISCHE BERICHTE

NUCLEAR SCIENCE ABSTRACTS

JOURNAL OF APPLIED MECHANICS

THE SHOCK AND VIBRATION DIGEST

A PUBLICATION OF THE SHOCK AND VIBRATION INFORMATION CENTER, NAVAL RESEARCH LABORATORY

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