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Mathematical
Systems Theory

Linear Systems, Identification and Control

includes CD-ROM

Mathematical Systems Theory

Diederich Hinrichsen, Anthony J. Pritchard

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Introduction to Mathematical Systems Theory J C Willems,J W Polderman,2014-01-15 Using the behavioural approach to mathematical modelling this book views a system as a dynamical relation between manifest and latent variables The emphasis is on dynamical systems that are represented by systems of linear constant coefficients The first part analyses the structure of the set of trajectories generated by such dynamical systems and derives the conditions for two systems of differential equations to be equivalent in the sense that they define the same behaviour In addition the memory structure of the system is analysed through state space models The second part of the book is devoted to a number of important system properties notably controllability observability and stability In the third part control problems are considered in particular stabilisation and pole placement questions Suitable for advanced undergraduate or beginning graduate students in mathematics and engineering this text contains numerous exercises including simulation problems and examples notably of mechanical systems and electrical circuits **Mathematical Systems Theory I** D. Hinrichsen,2005 **Mathematical Systems Theory** G. Marchesini,S. K. Mitter,2013-03-08 This volume is the record of lectures delivered at the Conference on Mathematical System Theory during the summer of 1975 The conference was held at the International Centre for Mechanical Sciences in Udine Italy and was supported by the Consiglio Nazionale delle Richerche of Italy and the International Centre for Mechanical Sciences The aim of the conference was to encourage fruitful and active collaboration between researchers

working in the diverse areas of system theory It was also the hope of the organizers that mathematicians participating in the conference might become interested in the purely mathematical problems being raised by systems theory as a result of their participation The success of the conference is to be measured by the extent to which these aims were fulfilled Besides the formal programme of lectures recorded in this volume many informal seminars were held The cafes of Udine were often the scene of rich and varied discussions of recent developments in the field amongst the participants of the conference Last but not least listening to the ideas exposed in the lectures of others in a creative atmosphere was an important activity

Advances in Mathematical Systems Theory Preston C. Hammer,1969 The patterns that have emerged from recent attempts to use mathematics to discuss complex phenomena have led to the development of a new discipline mathematical systems theory This theory arises from models of the important interactions in real systems Mathematicians engineers and technically oriented administrators will find this new series which describes in detail the latest views on real systems and the uses of formal systems of great value Four main areas are investigated in the first volume of the series theory of finite automata in engineering systems control systems computer linguistics and global principles concerning systems Examples and applications are provided throughout this work Contributors Preston G Hammer Editor Head Computer Science Department The Pennsylvania State University Alan J Perlis Head Computer Science Department Case Institute of Technology Former President Association for Computing Machinery M D Mesarovich Director Systems Research Institute Case Institute of Technology Editor Journal of Mathematical Systems Theory A W Wymore Head Systems Engineering Department University of Arizona **Advances in Mathematical Systems Theory** Fritz Colonius,2001 *Mathematical Systems Theory in Biology, Communications, Computation and Finance* Joachim Rosenthal,David S. Gilliam,2012-12-06 Mathematical systems theory is a vibrant research area in its own right The theory has an impact in numerous applications areas including aeronautics biological systems chemical engineering communication systems financial engineering and robotics to name just a few This volume contains survey and research articles by some of the leading researchers in mathematical systems theory Many authors have taken special care that their articles are self contained and accessible also to non specialists The articles contained in this volume are from those presented as plenary lectures invited one hour lectures and minisymposia at the 15th International Symposium on the Mathematical Theory of Networks and Systems held at the University of Notre Dame August 12 16 2002 **Directions in Mathematical Systems Theory and Optimization** Anders Rantzer,Christopher I. Byrnes,2014-03-12 For more than three decades Anders Lindquist has delivered fundamental cont butions to the elds of systems signals and control Throughout this period four themes can perhaps characterize his interests Modeling estimation and ltering feedback and robust control His contributions to modeling include seminal work on the role of splitting subspaces in stochastic realization theory on the partial realization problem for both deterministic and stochastic systems on the solution of the rational covariance extension problem and on system identi cation His contributions to ltering

and estimation include the development of fast ltering algorithms leading to a nonlinear dynamical system which computes spectral factors in its steady state and which provide an alternate linear in the dimension of the state space to computing the Kalman gain from a matrix Riccati equation His further research on the phase portrait of this dynamical system gave a better understanding of when the Kalman lter will converge answering an open question raised by Kalman While still a student he established the separation principle for stochastic function differential equations including some fundamental work on optimal control for stochastic systems with time lags He continued his interest in feedback control by deriving optimal and robust control feedback laws for suppressing the effects of harmonic disturbances Moreover his recent work on a complete parameterization of all rational solutions to the Nevanlinna Pick problem is providing a new approach to robust control design **Mathematical Systems Theory** Diederich Hinrichsen,Anthony J. Pritchard,2005 This book presents the mathematical foundations of systems theory in a self contained comprehensive detailed and mathematically rigorous way It is devoted to the analysis of dynamical systems and combines features of a detailed introductory textbook with that of a reference source The book contains many examples and figures illustrating the text which help to bring out the intuitive ideas behind the mathematical constructions Amazon com **Unsolved Problems in Mathematical Systems and Control Theory** Vincent D. Blondel,Alexandre Megretski,2009-04-11 This book provides clear presentations of more than sixty important unsolved problems in mathematical systems and control theory Each of the problems included here is proposed by a leading expert and set forth in an accessible manner Covering a wide range of areas the book will be an ideal reference for anyone interested in the latest developments in the field including specialists in applied mathematics engineering and computer science The book consists of ten parts representing various problem areas and each chapter sets forth a different problem presented by a researcher in the particular area and in the same way description of the problem motivation and history available results and bibliography It aims not only to encourage work on the included problems but also to suggest new ones and generate fresh research The reader will be able to submit solutions for possible inclusion on an online version of the book to be updated quarterly on the Princeton University Press website and thus also be able to access solutions updated information and partial solutions as they are developed **Introduction to Mathematical Systems Theory** ,1988 Directions in Mathematical Systems Theory and Optimization Anders Rantzer,Christopher I. Byrnes,2002-11-05 For more than three decades Anders Lindquist has delivered fundamental cont butions to the elds of systems signals and control Throughout this period four themes can perhaps characterize his interests Modeling estimation and ltering feedback and robust control His contributions to modeling include seminal work on the role of splitting subspaces in stochastic realization theory on the partial realization problem for both deterministic and stochastic systems on the solution of the rational covariance extension problem and on system identi cation His contributions to ltering and estimation include the development of fast ltering algorithms leading to a nonlinear dynamical system which computes spectral factors

in its steady state and which provide an alternate linear in the dimension of the state space to computing the Kalman gain from a matrix Riccati equation His further research on the phase portrait of this dynamical system gave a better understanding of when the Kalman lter will converge answering an open question raised by Kalman While still a student he established the separation principle for stochastic function differential equations including some fundamental work on optimal control for stochastic systems with time lags He continued his interest in feedback control by deriving optimal and robust control feedback laws for suppressing the effects of harmonic disturbances Moreover his recent work on a complete parameterization of all rational solutions to the Nevanlinna Pick problem is providing a new approach to robust control design   Mathematical Systems Theory Geert Jan Olsder,2011   **Mathematical systems theory** ,1967   Foundations of System Theory: Finitary and Infinitary Conditions Brian D.O. Anderson,Michael A. Arbib,E. G. Manes,1976-03-01 This paper is one of a series in which the ideas of category theory are applied to problems of system theory As with the three principal earlier papers 1 3 the emphasis is on study of the realization problem or the problem of associating with an input output description of a system an internal description with something analogous to a state space In this paper several sorts of machines will be discussed which arrange themselves in the following hierarchy Input process Machine Output process Tree automaton Machine State behavior Machine I Adjoint Machine Sequential Machine I Decomposable Machine Linear System Group Machine Each member of the hierarchy includes members below it examples are included in parentheaes and each example is at its lowest possible point in the hierarchy There are contrived examples of output process machines and IV state behavior machines which are not adjoint machines 3 but as yet no examples with the accepted stature of linear systems 4 group machines 5 6 sequential machines 7 Ch 2 and tree automata 7 Ch 4   Introduction to Mathematical Systems Theory Jan Willem Polderman,Jan C. Willems,2007 This is a book about modelling analysis and control of linear time invariant systems The book uses what is called the behavioral approach towards mathematical modelling An essential feature of using the behavioral approach is that it allows these and similar concepts to be introduced in a representation free manner Thus a system is viewed as a dynamical relation between manifest and latent variables The emphasis is on dynamical systems that are represented by systems of linear constant coefficients J Willems is well known researcher and has a very good reputation in nonlinear control theory The book contains numerous exercises including simulation problems and examples notably of mechanical systems and electrical circuits   General Systems Theory Yi Lin,2006-04-11 As suggested by the title of this book I will present a collection of coherently related applications and a theoretical development of a general systems theory Hopefully this book will invite all readers to sample an exciting and challenging even fun piece of interdisciplinary research that has characterized the scientific and technological achievements of the twentieth century And I hope that many of them will be motivated to do additional reading and to contribute to topics along the lines described in the following pages Since the applications in this volume range through many scientific disciplines from sociology to atomic physics from Einstein s

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