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SYSTEM THEORY
A Hilbert Space Approach

AVRAHAM FEINTUCH
RICHARD SAEKS

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System Theory A Hilbert Space Approach

H. Bart, I. Gohberg, Kaashoek

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[Mathematical System Theory, Evolution Equations, Differential and Difference Equations](#) Wolfgang Arendt,Joseph A. Ball,Jussi Behrndt,Karl-Heinz Förster,Volker Mehrmann,Carsten Trunk,2012-06-15 The present volume contains a collection of original research articles and expository contributions on recent developments in operator theory and its multifaceted applications. They cover a wide range of themes from the IWOTA 2010 conference held at the TU Berlin, Germany, including spectral theory, function spaces, mathematical system theory, evolution equations and semigroups, and differential and difference operators. The book encompasses new trends and various modern topics in operator theory and serves as a useful source of information to mathematicians, scientists and engineers [A State Space Approach to Canonical Factorization with Applications](#) Harm Bart,Israel Gohberg,Marinus A. Kaashoek,André C.M. Ran,2011-02-09 The present book deals with canonical factorization of matrix and operator functions that appear in state space form or that can be transformed into such a form. A unified geometric approach is used. The main results are all expressed explicitly in terms of matrices or operators which are parameters of the state space representation. The applications concern different classes of convolution equations. A large part of the book deals with rational matrix functions only **Mathematics of Complexity and Dynamical Systems**

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Hendrik Nijmeijer, 1989-09 The field of modern mathematical system theory has its origins in the work of R E Kalman in the late fifties It came to a rapid development in the early sixties and has seen a continuing and still growing stream of contributions in the years that followed Today it stands as a well established discipline The volume Three Decades of Mathematical System Theory surveys the developments in this field by presenting 21 articles covering the broad area of system and control theory All articles have been written by well known authors who were invited to give their personal expert view on a particular direction of research Together the contributions in this volume review the wide range of mathematical methods that are being applied in modern system and control theory The mathematical fields that are involved included differential and algebraic geometry linear and commutative algebra and functional and stochastic analysis

Evolution of Semantic Systems Bernd-Olaf Küppers, Udo Hahn, Stefan Artmann, 2013-04-08 Complex systems in nature and society make use of information for the development of their internal organization and the control of their functional mechanisms Alongside technical aspects of storing transmitting and processing information the various semantic aspects of information such as meaning sense reference and function play a decisive part in the analysis of such systems With the aim of fostering a better understanding of semantic systems from an evolutionary and multidisciplinary perspective this volume collects contributions by philosophers and natural scientists linguists information and computer scientists They do not follow a single research paradigm rather they shed in a complementary way new light upon some of the most important aspects of the evolution of semantic systems Evolution of Semantic Systems is intended for researchers in philosophy computer science and the natural sciences who work on the analysis or development of semantic systems ontologies or similar complex information structures In the eleven chapters they will find a broad discussion of topics ranging from underlying universal principles to representation and processing aspects to paradigmatic examples **System Theory** Louis Padulo, Michael A. Arbib, 1974

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State-space and Frequency-domain Methods in the Control of Distributed Parameter Systems Stephen P. Banks, 1983

Structured Hereditary Systems James A. Reneke, Robert E. Fennell, Roland B. Minton, 1987 **Proceedings of the 26th IEEE Conference on Decision and Control**, 1987 **Proceedings of the 1988 American Control Conference**, 1988

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