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Realizability Theory for Continuous Linear Systems

A. H. Zemanian

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Realizability Theory for Continuous Linear Systems Armen H. Zemanian, 1995-01-01 Concise exposition of realizability theory as applied to continuous linear systems specifically to the operators generated by physical systems as mappings of stimuli into responses Many problems included **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

Passive Macromodeling Stefano Grivet-Talocia, Bjorn Gustavsen, 2015-10-30 Offers an overview of state of the art passive macromodeling techniques with an emphasis on black box approaches This book offers coverage of developments in linear macromodeling with a focus on effective proven methods After starting with a definition of the fundamental properties that must characterize models of physical systems the authors discuss several prominent passive macromodeling algorithms for lumped and distributed systems and compare them under accuracy efficiency and robustness standpoints The book includes chapters with standard background material such as linear time invariant circuits and systems basic discretization of field equations state space systems as well as appendices collecting basic facts from linear algebra optimization templates and signals and transforms The text also covers more technical and advanced topics intended for the specialist which may be skipped at first reading Provides coverage of black box passive macromodeling an approach developed by the authors Elaborates on main concepts and results in a mathematically precise way using easy to understand language Illustrates macromodeling concepts through dedicated examples Includes a comprehensive set of end of chapter problems and exercises Passive Macromodeling Theory and Applications serves as a reference for senior or graduate level courses in electrical engineering programs and to engineers in the fields of numerical modeling simulation design and optimization of electrical electronic systems Stefano Grivet Talocia PhD is an Associate Professor of Circuit Theory at the Politecnico di Torino in Turin Italy and President of IdemWorks Dr Grivet Talocia is author of over 150 technical papers published in international journals and conference proceedings He invented several algorithms in the area of passive macromodeling making them available through IdemWorks Bj rn Gustavsen PhD is a Chief Research Scientist in Energy Systems at SINTEF Energy Research in Trondheim Norway More than ten years ago Dr Gustavsen developed the original version of the vector fitting method with Prof Semlyen at the University of Toronto The vector fitting method is one of the most widespread approaches for model

extraction Dr Gustavsen is also an IEEE fellow Mathematics in Science and Engineering ,1972 *Subject Guide to Books in Print* ,1996 *Books in Series in the United States* R.R. Bowker Company, Dept. of Bibliography Staff,1978

Books in Print ,1991 **American Book Publishing Record** ,1995 **The Realization Problem for Positive and Fractional Systems** Tadeusz Kaczorek,Lukasz Sajewski,2014-02-06 This book addresses the realization problem of positive and fractional continuous time and discrete time linear systems Roughly speaking the essence of the realization problem can be stated as follows Find the matrices of the state space equations of linear systems for given their transfer matrices This first book on this topic shows how many well known classical approaches have been extended to the new classes of positive and fractional linear systems The modified Gilbert method for multi input multi output linear systems the method for determination of realizations in the controller canonical forms and in observer canonical forms are presented The realization problem for linear systems described by differential operators the realization problem in the Weierstrass canonical forms and of the descriptor linear systems for given Markov parameters are addressed The book also presents a method for the determination of minimal realizations of descriptor linear systems and an extension for cone linear systems This monographs summarizes recent original investigations of the authors in the new field of the positive and fractional linear systems

American Scientist ,1942 *Selected Problems of Fractional Systems Theory* Tadeusz Kaczorek,2011-05-10 This monograph covers some selected problems of positive fractional 1D and 2D linear systems It is an extended and modified English version of its preceding Polish edition published by Technical University of Bialystok in 2009 This book is based on the lectures delivered by the author to the Ph D students of the Faculty of Electrical Engineering of Bialystok University of Technology and of Warsaw University of Technology and on invited lectures in several foreign universities in the last three years

Scientific and Technical Books and Serials in Print ,1989 Advances in the Theory and Applications of Non-integer Order Systems Wojciech Mitkowski,Janusz Kacprzyk,Jerzy Baranowski,2013-06-03 This volume presents various aspects of non integer order systems also known as fractional systems which have recently attracted an increasing attention in the scientific community of systems science applied mathematics control theory Non integer systems have become relevant for many fields of science and technology exemplified by the modeling of signal transmission electric noise dielectric polarization heat transfer electrochemical reactions thermal processes acoustics etc The content is divided into six parts every of which considers one of the currently relevant problems In the first part the Realization problem is discussed with a special focus on positive systems The second part considers stability of certain classes of non integer order systems with and without delays The third part is focused on such important aspects as controllability observability and optimization especially in discrete time The fourth part is focused on distributed systems where non integer calculus leads to new and interesting results The next part considers problems of solutions and approximations of non integer order equations and systems The final and most extensive part is devoted to applications Problems from mechatronics biomedical engineering robotics and

others are all analyzed and solved with tools from fractional systems This volume came to fruition thanks to high level of talks and interesting discussions at RRNR 2013 5th Conference on Non integer Order Calculus and its Applications that took place at AGH University of Science and Technology in Krak w Poland which was organized by the Faculty of Electrical Engineering Automatics Computer Science and Biomedical Engineering *Mathematical Reviews* ,2004 □□□□□□□□ ,1974 *Library of Congress Catalog* Library of Congress,1970 **Catalogs of the Scripps Institution of Oceanography Library** Scripps Institution of Oceanography. Library,1980 **Computer Books and Serials in Print** ,1985 **Books in Series** ,1985
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