NONNEGATIVE MATRICES in DYNAMIC SYSTEMS

Abraham Berman
Michael Neumann
Ronald J. Stern

Nonnegative Matrices In Dynamic Systems

Leslie Hogben

Nonnegative Matrices In Dynamic Systems:

   Nonnegative Matrices in Dynamic Systems Abraham Berman,Michael Neumann,Ronald J. Stern,1989 This work applies the theory of nonnegative matrices to problems arising in positive differential and control systems There is a concise review of requisite material in convex analysis and matrix theory as well as a detailed review of linear differential and control systems Exposition incorporates simple real world dynamic models to better illustrate various aspects of the theory being developed Contains exercises   Nonnegative Matrices in the Mathematical Sciences Abraham Berman,Robert J. Plemmons,2014-05-10 Nonnegative Matrices in the Mathematical Sciences provides information pertinent to the fundamental aspects of the theory of nonnegative matrices This book describes selected applications of the theory to numerical analysis probability economics and operations research Organized into 10 chapters this book begins with an overview of the properties of nonnegative matrices This text then examines the inverse positive matrices Other chapters consider the basic approaches to the study of nonnegative matrices namely geometrical and combinatorial This book discusses as well some useful ideas from the algebraic theory of semigroups and considers a canonical form for nonnegative idempotent matrices and special types of idempotent matrices The final chapter deals with the linear complementary problem LCP This book is a valuable resource for mathematical economists mathematical programmers statisticians mathematicians and computer scientists   **Nonnegative Matrices in the Mathematical Sciences** Abraham Berman,Robert J. Plemmons,1994-01-01 Mathematics of Computing Numerical Analysis   **Positive Dynamical Systems in Discrete Time** Ulrich Krause,2015-03-10 This book provides a systematic rigorous and self contained treatment of positive dynamical systems A dynamical system is positive when all relevant variables of a system are nonnegative in a natural way This is in biology demography or economics where the levels of populations or prices of goods are positive The principle also finds application in electrical engineering physics and computer sciences The author has greatly expanded the field of positive systems in surprising ways Prof Dr David G Luenberger Stanford University USA   Discrete Networked Dynamic Systems Magdi S. Mahmoud,Yuanqing Xia,2020-10-22 Discrete Networked Dynamic Systems Analysis and Performance provides a high level treatment of a general class of linear discrete time dynamic systems interconnected over an information network exchanging relative state measurements or output measurements It presents a systematic analysis of the material and provides an account to the math development in a unified way The topics in this book are structured along four dimensions Agent Environment Interaction and Organization while keeping global system centered and local agent centered viewpoints The focus is on the wide sense consensus problem in discrete networked dynamic systems The authors rely heavily on algebraic graph theory and topology to derive their results It is known that graphs play an important role in the analysis of interactions between multiagent distributed systems Graph theoretic analysis provides insight into how topological interactions play a role in achieving coordination among agents Numerous types of graphs exist in the literature

depending on the edge set of G A simple graph has no self loop or edges Complete graphs are simple graphs with an edge connecting any pair of vertices The vertex set in a bipartite graph can be partitioned into disjoint non empty vertex sets whereby there is an edge connecting every vertex in one set to every vertex in the other set Random graphs have fixed vertex sets but the edge set exhibits stochastic behavior modeled by probability functions Much of the studies in coordination control are based on deterministic fixed graphs switching graphs and random graphs This book addresses advanced analytical tools for characterization control estimation and design of networked dynamic systems over fixed probabilistic and time varying graphs Provides coherent results on adopting a set theoretic framework for critically examining problems of the analysis performance and design of discrete distributed systems over graphs Deals with both homogeneous and heterogeneous systems to guarantee the generality of design results **Control of Uncertain Dynamic Systems** Shankar P. Bhattacharyya,Lee H. Keel,2020-09-23 This book is a collection of 34 papers presented by leading researchers at the International Workshop on Robust Control held in San Antonio Texas in March 1991 The common theme tying these papers together is the analysis synthesis and design of control systems subject to various uncertainties The papers describe the latest results in parametric understanding H8 uncertainty l1 optical control and Quantitative Feedback Theory QFT The book is the first to bring together all the diverse points of view addressing the robust control problem and should strongly influence development in the robust control field for years to come For this reason control theorists engineers and applied mathematicians should consider it a crucial acquisition for their libraries Linear Matrix Inequalities in System and Control Theory Stephen Boyd,Laurent El Ghaoui,Eric Feron,Venkataramanan Balakrishnan,1994-01-01 In this book the authors reduce a wide variety of problems arising in system and control theory to a handful of convex and quasiconvex optimization problems that involve linear matrix inequalities These optimization problems can be solved using recently developed numerical algorithms that not only are polynomial time but also work very well in practice the reduction therefore can be considered a solution to the original problems This book opens up an important new research area in which convex optimization is combined with system and control theory resulting in the solution of a large number of previously unsolved problems **Handbook of Linear Algebra** Leslie Hogben,2006-11-02 The Handbook of Linear Algebra provides comprehensive coverage of linear algebra concepts applications and computational software packages in an easy to use handbook format The esteemed international contributors guide you from the very elementary aspects of the subject to the frontiers of current research The book features an accessibl *Nonlinear Systems* A.J. Fossard,D. Normand-Cyrot,2012-12-06 Nonlinear Systems is divided into three volumes The first deals with modeling and estimation the second with stability and stabilization and the third with control This three volume set provides the most comprehensive and detailed reference available on nonlinear systems Written by a group of leading experts in the field drawn from industry government and academic institutions it provides a solid theoretical basis on nonlinear control methods as well as practical

examples and advice for engineers teachers and researchers working with nonlinear systems Each book focuses on the applicability of the concepts introduced and keeps the level of mathematics to a minimum Simulations and industrial examples drawn from aerospace as well as mechanical electrical and chemical engineering are given throughout

Handbook of Linear Algebra, Second Edition Leslie Hogben,2013-11-26 With a substantial amount of new material the Handbook of Linear Algebra Second Edition provides comprehensive coverage of linear algebra concepts applications and computational software packages in an easy to use format It guides you from the very elementary aspects of the subject to the frontiers of current research Along with revisions and updates throughout the second edition of this bestseller includes 20 new chapters New to the Second Edition Separate chapters on Schur complements additional types of canonical forms tensors matrix polynomials matrix equations special types of matrices generalized inverses matrices over finite fields invariant subspaces representations of quivers and spectral sets New chapters on combinatorial matrix theory topics such as tournaments the minimum rank problem and spectral graph theory as well as numerical linear algebra topics including algorithms for structured matrix computations stability of structured matrix computations and nonlinear eigenvalue problems More chapters on applications of linear algebra including epidemiology and quantum error correction New chapter on using the free and open source software system Sage for linear algebra Additional sections in the chapters on sign pattern matrices and applications to geometry Conjectures and open problems in most chapters on advanced topics Highly praised as a valuable resource for anyone who uses linear algebra the first edition covered virtually all aspects of linear algebra and its applications This edition continues to encompass the fundamentals of linear algebra combinatorial and numerical linear algebra and applications of linear algebra to various disciplines while also covering up to date software packages for linear algebra computations **Analysis and Synthesis of Dynamic Systems with Positive Characteristics** Jun Shen,2017-03-27 This thesis develops several systematic and unified approaches for analyzing dynamic systems with positive characteristics or a more general cone invariance property Based on these analysis results it uses linear programming tools to address static output feedback synthesis problems with a focus on optimal gain performances Owing to their low computational complexity the established controller design algorithms are applicable for large scale systems The theory and control strategies developed will not only be useful in handling large scale positive delay systems with improved solvability and at lower cost but also further our understanding of the system characteristics in other related areas such as distributed coordination of networked multi agent systems formation control of multiple robots **The Complex Matters Of The Mind** Franco F Orsucci,1998-04-30 This book focuses on the successes and difficulties of nonlinear studies particularly in the areas of Mind Sciences It atttempts to answer the following questions is an interdisciplinary contamination of complexity studies in different disciplines useful Does this contamination originate in a transdisciplinary toolbox of methods and models which is worth calling it Nonlinear Science What are the relations between the metaphoric approach and the mathematical

approach in natural sciences and humanities Complexity in the Life Sciences represents a fundamental workbench for these kinds of problems The fascinating challenge in these areas is represented by studies on mind functioning **Handbook of Differential Equations: Ordinary Differential Equations** A. Canada,P. Drabek,A. Fonda,2005-09-02 This handbook is the second volume in a series devoted to self contained and up to date surveys in the theory of ordinary differential equations writtenby leading researchers in the area All contributors have made an additional effort to achieve readability for mathematicians and scientists from other related fields in order to make the chapters of the volume accessible to a wide audience Six chapters covering a variety of problems in ordinary differential equations Both pure mathematical research and real word applications are reflected Written by leading researchers in the area *Biology and Control Theory: Current Challenges* Isabelle Queinnec,Sophie Tarbouriech,Germain Garcia,Silviu-Iulian Niculescu,2007-08-07 Creating some links between control feedback and biology modeling communities based on similarities in modeling observing and perceiving alive structures and analyzing interconnections between biological structures and subsystems was the main objective of this volume In this context biology systems need appropriate analysis tools due to their structure and hierarchy complexity and environment interference and we believe that these aspects may generate interesting research topics in control area Indeed several works raising the potential impact of control developments to bring some beginning of answers in the context of biological systems have been published in the recent years The idea of this book was conceived in the context mentioned above with the objective to help in claiming many of the problems for control researchers starting discussions and opening interactive debates between the control and biology communities and finally to alert graduate students to the many interesting ideas at the frontier between control feedback theory and biology **Game Theory and Networks** Surajit Borkotokey,Rajnish Kumar,Diganta Mukherjee,K. S. Mallikarjuna Rao,Sudipta Sarangi,2022-01-01 This book is a collection of selected papers presented at the consecutively held international conferences on Game Theory and Networks organized by the Department of Mathematics Dibrugarh University India in collaboration with the Economics Department of Queen s University Belfast UK during September 6 9 2019 and September 13 15 2018 The book includes chapters on network measures and network formation application of network theory to contagion biological data and finance and macroeconomics as expository articles The book also contains chapters on fair allocation in the context of queuing rationing and cooperative games with transferable utilities for engaged researchers A few survey chapters on non cooperative game theory evolutionary game theory mechanism design and social choice theory are also incorporated to cater to the needs of the beginners in the field This book discusses the use of game theoretic tools and network models across disciplines mathematics statistics economics computer science political science sociology and psychology It aims at providing a suitable learning experience to beginners on the basics of cooperative games networks and mechanism design as well as recent developments to research scholars having the basic knowledge of these topics **Pre-Riesz Spaces** Anke Kalauch,Onno van

Gaans,2018-11-19 This monograph develops the theory of pre Riesz spaces which are the partially ordered vector spaces that embed order densely into Riesz spaces Concepts from Riesz space theory such as disjointness ideals and bands are extended to pre Riesz spaces The analysis revolves around embedding techniques including the Riesz completion and the functional representation In the same spirit norms and topologies on a pre Riesz space and their extensions to the Riesz completion are examined The generalized concepts are used to investigate disjointness preserving operators on pre Riesz spaces and related notions The monograph presents recent results as well as being an accessible introduction to the theory of partially ordered vector spaces and positive operators Contents A primer on ordered vector spaces Embeddings covers and completions Seminorms on pre Riesz spaces Disjointness bands and ideals in pre Riesz spaces Operators on pre Riesz spaces

Mathematical Methods in Robust Control of Discrete-Time Linear Stochastic Systems Vasile Dragan,Toader Morozan,Adrian-Mihail Stoica,2009-11-10 In this monograph the authors develop a theory for the robust control of discrete time stochastic systems subjected to both independent random perturbations and to Markov chains Such systems are widely used to provide mathematical models for real processes in fields such as aerospace engineering communications manufacturing finance and economy The theory is a continuation of the authors work presented in their previous book entitled Mathematical Methods in Robust Control of Linear Stochastic Systems published by Springer in 2006 Key features Provides a common unifying framework for discrete time stochastic systems corrupted with both independent random perturbations and with Markovian jumps which are usually treated separately in the control literature Covers preliminary material on probability theory independent random variables conditional expectation and Markov chains Proposes new numerical algorithms to solve coupled matrix algebraic Riccati equations Leads the reader in a natural way to the original results through a systematic presentation Presents new theoretical results with detailed numerical examples The monograph is geared to researchers and graduate students in advanced control engineering applied mathematics mathematical systems theory and finance It is also accessible to undergraduate students with a fundamental knowledge in the theory of stochastic systems *Dynamical Systems and Random Processes* Jane Hawkins,Rachel L. Rossetti,Jim Wiseman,2019-09-23 This volume contains the proceedings of the 16th Carolina Dynamics Symposium held from April 13 15 2018 at Agnes Scott College Decatur Georgia The papers cover various topics in dynamics and randomness including complex dynamics ergodic theory topological dynamics celestial mechanics symbolic dynamics computational topology random processes and regular languages The intent is to provide a glimpse of the richness of the field and of the common threads that tie the different specialties together *Control and System Theory of Discrete-Time Stochastic Systems* Jan H. van Schuppen,2021-08-02 This book helps students researchers and practicing engineers to understand the theoretical framework of control and system theory for discrete time stochastic systems so that they can then apply its principles to their own stochastic control systems and to the solution of control filtering and realization problems for such systems Applications of the theory in the

book include the control of ships shock absorbers traffic and communications networks and power systems with fluctuating power flows The focus of the book is a stochastic control system defined for a spectrum of probability distributions including Bernoulli finite Poisson beta gamma and Gaussian distributions The concepts of observability and controllability of a stochastic control system are defined and characterized Each output process considered is with respect to conditions represented by a stochastic system called a stochastic realization The existence of a control law is related to stochastic controllability while the existence of a filter system is related to stochastic observability Stochastic control with partial observations is based on the existence of a stochastic realization of the filtration of the observed process **Analysis and Synthesis of Positive Systems Under l1 and L1 Performance** Xiaoming Chen,2016-07-27 This thesis introduces novel and significant results regarding the analysis and synthesis of positive systems especially under l1 and L1 performance It describes stability analysis controller synthesis and bounding positivity preserving observer and filtering design for a variety of both discrete and continuous positive systems It subsequently derives computationally efficient solutions based on linear programming in terms of matrix inequalities as well as a number of analytical solutions obtained for special cases The thesis applies a range of novel approaches and fundamental techniques to the further study of positive systems thus contributing significantly to the theory of positive systems a hot topic in the field of control

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