

NONNEGATIVE MATRICES in DYNAMIC SYSTEMS



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Nonnegative Matrices In Dynamic Systems

IM Harris



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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 and Compartmental Dynamical Systems Wassim M. Haddad, VijaySekhar Chellaboina, Qing Hui, 2010-01-04 This comprehensive book provides the first unified framework for stability and dissipativity analysis and control design for nonnegative and compartmental dynamical systems which play a key role in a wide range of fields including engineering thermal sciences biology ecology economics genetics chemistry medicine and sociology Using the highest standards of exposition and rigor the authors explain these systems and advance the state of the art in their analysis and active control design Nonnegative and Compartmental Dynamical Systems presents the most complete treatment available of system solution properties Lyapunov stability analysis dissipativity theory and optimal and adaptive control for these systems addressing continuous time discrete time and hybrid nonnegative system theory This book is an indispensable resource for applied mathematicians dynamical systems theorists control theorists and engineers as well as for researchers and graduate students who want to understand the behavior of nonnegative and compartmental dynamical systems that arise in areas such as biomedicine demographics epidemiology pharmacology telecommunications transportation thermodynamics networks heat transfer and power systems

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 uncertainty H₈ uncertainty l₁ optimal 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

Impulsive and Hybrid Dynamical Systems

Wassim M. Haddad,VijaySekhar Chellaboina,Sergey G. Nersesov,2014-09-08 This book develops a general analysis and synthesis framework for impulsive and hybrid dynamical systems Such a framework is imperative for modern complex engineering systems that involve interacting continuous time and discrete time dynamics with multiple modes of operation that place stringent demands on controller design and require implementation of increasing complexity whether advanced high performance tactical fighter aircraft and space vehicles variable cycle gas turbine engines or air and ground transportation systems Impulsive and Hybrid Dynamical Systems goes beyond similar treatments by developing invariant set stability theorems partial stability Lagrange stability boundedness ultimate boundedness dissipativity theory vector dissipativity theory energy based hybrid control optimal control disturbance rejection control and robust control for nonlinear impulsive and hybrid dynamical systems A major contribution to mathematical system theory and control system theory this book is written from a system theoretic point of view with the highest standards of exposition and rigor It is intended for graduate students researchers and practitioners of engineering and applied mathematics as well as computer scientists physicists and other scientists who seek a fundamental understanding of the rich dynamical behavior of impulsive and hybrid dynamical systems

Nonnegative Matrices, Positive Operators, And Applications Aihui Zhou,Jiu

Ding,2009-08-24 Nonnegative matrices and positive operators are widely applied in science engineering and technology This book provides the basic theory and several typical modern science and engineering applications of nonnegative matrices and positive operators including the fundamental theory methods numerical analysis and applications in the Google search engine computational molecular dynamics and wireless communications Unique features of this book include the combination of the theories of nonnegative matrices and positive operators as well as the emphasis on applications of nonnegative matrices in the numerical analysis of positive operators such as Markov operators and Frobenius Perron operators both of which play key roles in the statistical and stochastic studies of dynamical systems It can be used as a textbook for an upper level undergraduate or beginning graduate course in advanced matrix theory and or positive operators as well as for an advanced topics course in operator theory or ergodic theory In addition it serves as a good reference for researchers in mathematical sciences physical sciences and engineering

Introduction to Dynamic Systems David G.

Luenberger,1979-05-28 Difference and differential equations Linear algebra Linear state equations Linear systems with constant coefficients Positive systems Markov chains Concepts of control Analysis of nonlinear systems Some important dynamic systems Optimal control

Positive Systems ,2006 International Journal of Applied Mathematics and Computer Science ,2003

Nonnegative Matrices in the Mathematical Sciences Abraham Berman,Robert J. Plemmons,1979

Journal of Dynamic Systems, Measurement, and Control ,2007 **Kybernetika** ,2006 *Optimization Theory and Its Application* Lou Caccetta,2001 Dynamic Systems and Applications ,2006 ,1997 *Matrix Riccati Differential Equations* Gerhard Jank,2005 **SIAM Journal on Matrix Analysis and Applications** ,1994 Contains research articles on linear algebra with emphasis on applications and numerical procedures These applications include such areas as Markov chains networks signal processing systems and control theory mathematical programming economic and biological modeling and statistics and operations research Discrete and Continuous Dynamical Systems ,2007 **SIAM Journal on Control and Optimization** Society for Industrial and Applied Mathematics,2009 **International Symposium on the Mathematical Theory of Networks and Systems** ,1993

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