Nonnegative Matrices in the Mathematical Sciences

Abraham Berman
Robert J. Plemmons

Nonnegative Matrices In The Mathematical Sciences Classics In Applied Mathematics No 9

Theodore Mariolis,Lefteris Tsoulfidis

Nonnegative Matrices In The Mathematical Sciences Classics In Applied Mathematics No 9:
     Nonnegative Matrices in the Mathematical Sciences Abraham Berman,Robert J. Plemmons,1994-01-01 Mathematics of Computing Numerical Analysis   Convex Optimization in Signal Processing and Communications Daniel P. Palomar,Yonina C. Eldar,2010 Leading experts provide the theoretical underpinnings of the subject plus tutorials on a wide range of applications from automatic code generation to robust broadband beamforming Emphasis on cutting edge research and formulating problems in convex form make this an ideal textbook for advanced graduate courses and a useful self study guide   Time Series Econometrics Klaus Neusser,2016-06-14 This text presents modern developments in time series analysis and focuses on their application to economic problems The book first introduces the fundamental concept of a stationary time series and the basic properties of covariance investigating the structure and estimation of autoregressive moving average ARMA models and their relations to the covariance structure The book then moves on to non stationary time series highlighting its consequences for modeling and forecasting and presenting standard statistical tests and regressions Next the text discusses volatility models and their applications in the analysis of financial market data focusing on generalized autoregressive conditional heteroskedastic GARCH models The second part of the text devoted to multivariate processes such as vector autoregressive VAR models and structural vector autoregressive SVAR models which have become the main tools in empirical macroeconomics The text concludes with a discussion of co integrated models and the Kalman Filter which is being used with increasing frequency Mathematically rigorous yet application oriented this self contained text will help students develop a deeper understanding of theory and better command of the models that are vital to the field Assuming a basic knowledge of statistics and or econometrics this text is best suited for advanced undergraduate and beginning graduate students   *Modern Optimization Modelling Techniques* Roberto Cominetti,Francisco Facchinei,Jean B. Lasserre,2012-08-28 The theory of optimization understood in a broad sense is the basis of modern applied mathematics covering a large spectrum of topics from theoretical considerations structure stability to applied operational research and engineering applications The compiled material of this book puts on display this versatility by exhibiting the three parallel and complementary components of optimization theory algorithms and practical problems The book contains an expanded version of three series of lectures delivered by the authors at the CRM in July 2009 The first part is a self contained course on the general moment problem and its relations with semidefinite programming The second part is dedicated to the problem of determination of Nash equilibria from an algorithmic viewpoint The last part presents congestion models for traffic networks and develops modern optimization techniques for finding traffic equilibria based on stochastic optimization and game theory
     Contributions in Algebra and Algebraic Geometry Shrikrishna G. Dani,Surender K. Jain,Jugal K. Verma,Meenakshi P. Wasadikar,2019-10-07 This volume contains the proceedings of the International Conference on Algebra Discrete Mathematics and Applications held from December 9 11 2017 at Dr Babasaheb Ambedkar Marathwada University

Aurangabad Maharashtra India Contemporary topics of research in algebra and its applications to algebraic geometry Lie groups algebraic combinatorics and representation theory are covered The articles are devoted to Leavitt path algebras roots of elements in Lie groups Hilbert s Nullstellensatz mixed multiplicities of ideals singular matrices rings of integers injective hulls of modules representations of linear symmetric groups and Lie algebras the algebra of generic matrices and almost injective modules   <u>Nonnegative Matrices in the Mathematical Sciences</u> 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

<u>Matrix-Analytic Methods in Stochastic Models</u> Guy Latouche,Vaidyanathan Ramaswami,Jay Sethuraman,Karl Sigman,Mark S. Squillante,David Yao,2012-12-04 Matrix analytic and related methods have become recognized as an important and fundamental approach for the mathematical analysis of general classes of complex stochastic models Research in the area of matrix analytic and related methods seeks to discover underlying probabilistic structures intrinsic in such stochastic models develop numerical algorithms for computing functionals e g performance measures of the underlying stochastic processes and apply these probabilistic structures and or computational algorithms within a wide variety of fields This volume presents recent research results on the theory algorithms and methodologies concerning matrix analytic and related methods in stochastic models and the application of matrix analytic and related methods in various fields which includes but is not limited to computer science and engineering communication networks and telephony electrical and industrial engineering operations research management science financial and risk analysis and bio statistics These research studies provide deep insights and understanding of the stochastic models of interest from a mathematics and or applications perspective as well as identify directions for future research   **Difference and Differential Equations** Saber Elaydi, This volume contains papers from the 7th International Conference on Difference Equations held at Hunan University Changsa China a satellite conference of ICM2002 Beijing The volume captures the spirit of the meeting and includes peer reviewed survey papers research papers and open problems and conjectures Articles cover stability oscillation chaos symmetries boundary value problems and bifurcations for discrete dynamical systems difference differential equations and discretization of continuous systems The book presents state of the art research in these important areas It is suitable for graduate

students and researchers in difference equations and related topics **Matrix Models for Population, Disease, and Evolutionary Dynamics** J. M. Cushing,2024-02-29 This book offers an introduction to the use of matrix theory and linear algebra in modeling the dynamics of biological populations Matrix algebra has been used in population biology since the 1940s and continues to play a major role in theoretical and applied dynamics for populations structured by age body size or weight disease states physiological and behavioral characteristics life cycle stages or any of many other possible classification schemes With a focus on matrix models the book requires only first courses in multivariable calculus and matrix theory or linear algebra as prerequisites The reader will learn the basics of modeling methodology i e how to set up a matrix model from biological underpinnings and the fundamentals of the analysis of discrete time dynamical systems equilibria stability bifurcations etc A recurrent theme in all chapters concerns the problem of extinction versus survival of a population In addition to numerous examples that illustrate these fundamentals several applications appear at the end of each chapter that illustrate the full cycle of model setup mathematical analysis and interpretation The author has used the material over many decades in a variety of teaching and mentoring settings including special topics courses and seminars in mathematical modeling mathematical biology and dynamical systems **Monomial Algebras** Rafael Villarreal,2018-10-08 Monomial Algebras Second Edition presents algebraic combinatorial and computational methods for studying monomial algebras and their ideals including Stanley Reisner rings monomial subrings Ehrhart rings and blowup algebras It emphasizes square free monomials and the corresponding graphs clutters or hypergraphs New to the Second Edition Four new chapters that focus on the algebraic properties of blowup algebras in combinatorial optimization problems of clutters and hypergraphs Two new chapters that explore the algebraic and combinatorial properties of the edge ideal of clutters and hypergraphs Full revisions of existing chapters to provide an up to date account of the subject Bringing together several areas of pure and applied mathematics this book shows how monomial algebras are related to polyhedral geometry combinatorial optimization and combinatorics of hypergraphs It directly links the algebraic properties of monomial algebras to combinatorial structures such as simplicial complexes posets digraphs graphs and clutters and linear optimization problems Current Challenges in Stability Issues for Numerical Differential Equations Wolf-Jürgen Beyn,Luca Dieci,Nicola Guglielmi,Ernst Hairer,Jesús María Sanz-Serna,Marino Zennaro,2013-12-12 This volume addresses some of the research areas in the general field of stability studies for differential equations with emphasis on issues of concern for numerical studies Topics considered include i the long time integration of Hamiltonian Ordinary DEs and highly oscillatory systems ii connection between stochastic DEs and geometric integration using the Markov chain Monte Carlo method iii computation of dynamic patterns in evolutionary partial DEs iv decomposition of matrices depending on parameters and localization of singularities and v uniform stability analysis for time dependent linear initial value problems of ODEs The problems considered in this volume are of interest to people working on numerical as well as qualitative aspects of differential equations and it will serve both as a reference and

as an entry point into further research   <u>Understanding UMTS Radio Network Modelling, Planning and Automated</u> <u>Optimisation</u> Maciej Nawrocki,Hamid Aghvami,Mischa Dohler,2006-07-06 This book sets out to provide the theoretical foundations that will enable radio network planners to plan model and optimize radio networks using state of the art findings from around the globe It adopts a logical approach beginning with the background to the present status of UMTS radio network technology before devoting equal coverage to planning modelling and optimization issues All key planning areas are covered including the technical and legal implications of network infrastructure sharing hierarchical cell structure HCS deployment ultra high site deployment and the benefits and limitations of using computer aided design CAD software Theoretical models for UMTS technology are explained as generic system models stand alone services and mixed services Business modelling theory and methods are put forward taking in propagation calculations link level UMTS static and UMTS dynamic simulations The challenges and goals of the automated optimization process are explored in depth using cutting edge cost function and optimization algorithms This theory based resource containing prolific illustrative case studies explains the reasons for UMTS radio networks performance issues and how to use this foundational knowledge to model plan and optimize present and future systems   **The Schur Complement and Its Applications** Fuzhen Zhang,2005-03-04 This book describes the Schur complement as a rich and basic tool in mathematical research and applications and discusses many significant results that illustrate its power and fertility Coverage includes historical development basic properties eigenvalue and singular value inequalities matrix inequalities in both finite and infinite dimensional settings closure properties and applications in statistics probability and numerical analysis   **Progress on Difference Equations and Discrete Dynamical Systems** Steve Baigent,Martin Bohner,Saber Elaydi,2021-01-04 This book comprises selected papers of the 25th International Conference on Difference Equations and Applications ICDEA 2019 held at UCL London UK in June 2019 The volume details the latest research on difference equations and discrete dynamical systems and their application to areas such as biology economics and the social sciences Some chapters have a tutorial style and cover the history and more recent developments for a particular topic such as chaos bifurcation theory monotone dynamics and global stability Other chapters cover the latest personal research contributions of the author s in their particular area of expertise and range from the more technical articles on abstract systems to those that discuss the application of difference equations to real world problems The book is of interest to both Ph D students and researchers alike who wish to keep abreast of the latest developments in difference equations and discrete dynamical systems   **Linear and Nonlinear Functional Analysis with Applications** Philippe G. Ciarlet,2013-10-10 This single volume textbook covers the fundamentals of linear and nonlinear functional analysis illustrating most of the basic theorems with numerous applications to linear and nonlinear partial differential equations and to selected topics from numerical analysis and optimization theory This book has pedagogical appeal because it features self contained and complete proofs of most of the theorems some of which are not always easy to locate in the

literature or are difficult to reconstitute It also offers 401 problems and 52 figures plus historical notes and many original references that provide an idea of the genesis of the important results and it covers most of the core topics from functional analysis   **Inverse Problems, Regularization Methods and Related Topics** Sergei V. Pereverzyev,R. Radha,S. Sivananthan,2025-03-31 This book features a thoughtfully curated collection of research contributions spanning regularization theory integral equations learning theory and matrix and operator theory These contributions were presented in honor of Prof M Thamban Nair on his 65th birthday during the International Conference on Analysis Inverse Problems and Applications which took place at the IIT Madras in Chennai India from July 18 21 2022 The book is a valuable resource for graduate students engineers scientists and researchers looking to advance their work in the development of innovative regularization algorithms It comprises 14 chapters contributed by esteemed experts and emerging researchers   **SIAM Journal on Matrix Analysis and Applications** ,1998   **Inverse Eigenvalue Problems** Moody Chu,Gene Golub,2005-06-16 Inverse eigenvalue problems arise in a remarkable variety of applications and associated with any inverse eigenvalue problem are two fundamental questions the theoretical issue of solvability and the practical issue of computability Both questions are difficult and challenging In this text the authors discuss the fundamental questions some known results many applications mathematical properties a variety of numerical techniques as well as several open problems This is the first book in the authoritative Numerical Mathematics and Scientific Computation series to cover numerical linear algebra a broad area of numerical analysis Authored by two world renowned researchers the book is aimed at graduates and researchers in applied mathematics engineering and computer science and makes an ideal graduate text   *Modern Classical Economics and Reality* Theodore Mariolis,Lefteris Tsoulfidis,2016-01-13 This book presents an in depth novel and mathematically rigorous treatment of the modern classical theory of value based on the spectral analysis of the price profit wage rate system The classical theory is also subjected to empirical testing to show its logical consistency and explanatory content with respect to observed phenomena and key economic policy issues related to various multiplier processes In this context there is an examination of the trajectories of relative prices when the distributive variables change both theoretically and empirically using actual input output data from a number of quite divers e economies It is suggested that the actual economies do not behave like the parable of a one commodity world of the traditional neoclassical theory which theorizes the relative scarcities of goods and production factors as the fundamental determinants of relative prices and their movement By contrast the results of the empirical analysis are fully consistent with the modern classical theory which makes the intersectoral structure of production and the way in which net output is distributed amongst its claimants the fundamental determinants of price magnitudes At the same time however these results indicate that only a few vertically integrated industries industry core or hyper basic industries are enough to shape the behaviour of the entire economy in the case of a disturbance This fact is reduced to the skew distribution of the eigenvalues of the matrices of vertically integrated technical

coefficients and reveals that across countries and over time the effective dimensions of actual economies are surprisingly low

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