

NONNEGATIVE MATRICES AND APPLICATIONS

R. B. BAPAT

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Nonnegative Matrices And Applications

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Abraham Berman, Robert J. Plemmons



Nonnegative Matrices And Applications Nonnegative Matrices And Applications:

Nonnegative Matrices and Applications R. B. Bapat, T. E. S. Raghavan, 1997-03-28 This book provides an integrated treatment of the theory of nonnegative matrices matrices with only positive numbers or zero as entries and some related classes of positive matrices concentrating on connections with game theory combinatorics inequalities optimisation and mathematical economics The wide variety of applications which include price fixing scheduling and the fair division problem have been carefully chosen both for their elegant mathematical content and for their accessibility to students with minimal preparation Many results in matrix theory are also presented The treatment is rigorous and almost all results are proved completely These results and applications will be of great interest to researchers in linear programming statistics and operations research The minimal prerequisites also make the book accessible to first year graduate students **Special Issue: Proceedings of the Workshop Nonnegative Matrices, Applications and Generalizations and the Eight Haifa Matrix Theory Conference** Workshop Nonnegative Matrices, Applications and Generalizations (1993, Hêfâ), Haifa Matrix Theory Conference (8, 1993, Hêfâ), 1995 *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 **Non-negative Matrices and Markov Chains** E. Seneta, 2006-07-02 Since its inception by Perron and Frobenius the theory of non negative matrices has developed enormously and is now being used and extended in applied fields of study as diverse as probability theory numerical analysis demography mathematical economics and dynamic programming while its development is still proceeding rapidly as a branch of pure mathematics in its own right While there are books which cover this or that aspect of the theory it is nevertheless not uncommon for workers in one or another branch of its development to be unaware of what is known in other branches even though there is often formal overlap One of the purposes of this book is to relate several aspects of the theory insofar as this is possible The author hopes that the book will be useful to mathematicians but in particular to the workers in applied fields so the mathematics has been kept as simple as could be managed The mathematical requisites for reading it

are some knowledge of real variable theory and matrix theory and a little knowledge of complex variable the emphasis is on real variable methods There is only one part of the book the second part of 55 5 which is of rather specialist interest and requires deeper knowledge Appendices provide brief expositions of those areas of mathematics needed which may be less generally known to the average reader

Nonnegative Matrices and Applicable Topics in Linear Algebra Alexander Graham, 2019-11-13 Concise treatment covers graph theory unitary and Hermitian matrices and positive definite matrices as well as stochastic genetic and economic models Problems with solutions enhance the text 1987 edition

Nonnegative Matrix Factorization Nicolas Gillis, 2020-12-18 Nonnegative matrix factorization NMF in its modern form has become a standard tool in the analysis of high dimensional data sets This book provides a comprehensive and up to date account of the most important aspects of the NMF problem and is the first to detail its theoretical aspects including geometric interpretation nonnegative rank complexity and uniqueness It explains why understanding these theoretical insights is key to using this computational tool effectively and meaningfully Nonnegative Matrix Factorization is accessible to a wide audience and is ideal for anyone interested in the workings of NMF It discusses some new results on the nonnegative rank and the identifiability of NMF and makes available MATLAB codes for readers to run the numerical examples presented in the book Graduate students starting to work on NMF and researchers interested in better understanding the NMF problem and how they can use it will find this book useful It can be used in advanced undergraduate and graduate level courses on numerical linear algebra and on advanced topics in numerical linear algebra and requires only a basic knowledge of linear algebra and optimization

Non-negative Matrices Eugene Seneta, 1973

Nonnegative Matrix and Tensor Factorizations Andrzej Cichocki, Rafal Zdunek, Anh Huy Phan, Shun-ichi Amari, 2009-07-10 This book provides a broad survey of models and efficient algorithms for Nonnegative Matrix Factorization NMF This includes NMF's various extensions and modifications especially Nonnegative Tensor Factorizations NTF and Nonnegative Tucker Decompositions NTD NMF NTF and their extensions are increasingly used as tools in signal and image processing and data analysis having garnered interest due to their capability to provide new insights and relevant information about the complex latent relationships in experimental data sets It is suggested that NMF can provide meaningful components with physical interpretations for example in bioinformatics NMF and its extensions have been successfully applied to gene expression sequence analysis the functional characterization of genes clustering and text mining As such the authors focus on the algorithms that are most useful in practice looking at the fastest most robust and suitable for large scale models Key features Acts as a single source reference guide to NMF collating information that is widely dispersed in current literature including the authors own recently developed techniques in the subject area Uses generalized cost functions such as Bregman Alpha and Beta divergences to present practical implementations of several types of robust algorithms in particular Multiplicative Alternating Least Squares Projected Gradient and Quasi Newton algorithms Provides a comparative analysis of the different methods in order to identify

approximation error and complexity Includes pseudo codes and optimized MATLAB source codes for almost all algorithms presented in the book The increasing interest in nonnegative matrix and tensor factorizations as well as decompositions and sparse representation of data will ensure that this book is essential reading for engineers scientists researchers industry practitioners and graduate students across signal and image processing neuroscience data mining and data analysis computer science bioinformatics speech processing biomedical engineering and multimedia

Nonnegative Matrices in the Mathematical Sciences Abraham Berman, Robert J. Plemmons, 1994-01-01 Mathematics of Computing Numerical Analysis

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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

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