

Contents

Skew Spectrum of the Cartesian Product of an Oriented Graph with an Oriented Hypercube	1
A. Anuradha and R. Balakrishnan	
Notes on Explicit Block Diagonalization	13
Murali K. Srinivasan	
The Third Immanant of q-Laplacian Matrices of Trees and Laplacians of Regular Graphs	33
R.B. Bapat and Sivaramakrishnan Sivasubramanian	
Matrix Product of Graphs	41
K. Manjunatha Prasad, G. Sudhakara, H.S. Sujatha, and M. Vinay	
Determinant of the Laplacian Matrix of a Weighted Directed Graph . . .	57
Debajit Kalita	
From Multivariate Skewed Distributions to Copulas	63
Tõnu Kollo, Anne Selart, and Helle Visk	
Revisiting the BLUE in a Linear Model via Proper Eigenvectors	73
Jan Hauke, Augustyn Markiewicz, and Simo Puntanen	
Inference in Error Orthogonal Models	85
Francisco Carvalho and João Tiago Mexia	
On the Entries of Orthogonal Projection Matrices	101
Oskar Maria Baksalary and Götz Trenkler	
Moore–Penrose Inverse of Perturbed Operators on Hilbert Spaces	119
Shani Jose and K.C. Sivakumar	
The Reverse Order Law in Indefinite Inner Product Spaces	133
Sachindranath Jayaraman	

Generalized Inverses and Approximation Numbers	143
K.P. Deepesh, S.H. Kulkarni, and M.T. Nair	
On the Level-2 Condition Number for Moore–Penrose Inverse in Hilbert Space	159
Huaian Diao and Yimin Wei	
Products and Sums of Idempotent Matrices over Principal Ideal Domains	171
K.P.S. Bhaskara Rao	
Perfect Semiring of Nonnegative Matrices	177
Adel Alahmedi, Yousef Alkhamees, and S.K. Jain	
Regular Matrices over an Incline	183
AR. Meenakshi	
Matrix Partial Orders Associated with Space Preorder	195
K. Manjunatha Prasad, K.S. Mohana, and Y. Santhi Sheela	
An Illustrated Introduction to Some Old Magic Squares from India . . .	227
George P.H. Styan and Ka Lok Chu	
A Report on CMTGIM 2012, Manipal	253
R.B. Bapat and K. Manjunatha Prasad	
Index	275

Combinatorial Matrix Theory and Generalized Inverses of
Matrices

Bapat, R.; Kirkland, S.J.; Prasad, K.M.; Puntanen, S.
(Eds.)

2013, XVII, 277 p. 53 illus., 36 illus. in color., Hardcover

ISBN: 978-81-322-1052-8