

Contents

Editorial Introduction	vii
<i>D. Alpay and I. Gohberg</i> A Connection between Szegő and Nehari Sequences in the Matrix-valued Case	1
<i>J.A. Ball, A. Biswas, Q. Fang and S. ter Horst</i> Multivariable Generalizations of the Schur Class: Positive Kernel Characterization and Transfer Function Realization	17
<i>A. Böttcher, S. Grudsky and M. Schwartz</i> Some Problems Concerning the Test Functions in the Szegő and Avram-Parter Theorems	81
<i>M.R. Capobianco, G. Criscuolo and P. Junghanns</i> On the Numerical Solution of a Hypersingular Integral Equation with Fixed Singularities	95
<i>M. Chō, M. Giga and A.H. Kim</i> Spectrum and Principal Function of Operators	117
<i>M. Demuth</i> Spectral Consequences due to General Hölder's Inequalities and Domination of Semigroups	125
<i>Y. Dong, G. Exner, I.B. Jung and C. Li</i> Quadratically Hyponormal Recursively Generated Weighted Shifts ...	141
<i>A.E. Frazho, S. ter Horst and M.A. Kaashoek</i> Relaxed Commutant Lifting: An Equivalent Version and a New Application	157
<i>M. Fujii and E. Kamei</i> Variants of Ando-Hiai Inequality	169
<i>R. Harte</i> On Local Spectral Theory	175

V.S. Rabinovich, S. Roch and B. Silbermann

The Finite Sections Approach to the Index Formula for Band-dominated Operators	185
---	-----

M. Seto

A New Proof that Rudin's Module is not Finitely Generated	195
---	-----

K. Tanahashi, I.H. Jeon, I.H. Kim and A. Uchiyama

Quasinilpotent Part of class A or (p, k) -quasihyponormal Operators	199
--	-----

M. Uchiyama

A New Majorization Induced by Matrix Order	211
--	-----

A. Yagi

H_∞ Functional Calculus and Characterization of Domains of Fractional Powers	217
--	-----

W. Żelazko

Operators on Locally Convex Spaces	237
--	-----