CONTENTS

Preface vii

Editorial
Sydney R. Parker and Armen H. Zemanian 267

Editorial, Special Issue on Rational Approximations for Systems
A. Bultheel and P. Dewilde 269

Generalisations of Padé Approximants
J.S.R. Chisholm 279

Toeplitz Equations and Kronecker's Algorithm
P.R. Graves-Morris 289

The Asymptotic Behavior of Hermite-Padé Polynomials
J. Nuttall 305

Stieltjes Series and Soliton Interaction
F.J. Lambert and M. Musette 311

Nested-Feedback-Loops Realization of 2-D Systems
Andrzej Cichocki 321

Moment Problems and Low Rank Toeplitz Approximations
George Cybenko 345

A Remark on the Numerics of Rational Approximation and the Rate of Convergence of Equally Spaced Interpolation of $|x|$
Helmut Werner 367

Contractive Intertwining Dilations and Norm Approximation Techniques
Gr. Arsene and Zoia Ceauşescu 379

Estimation of Structure by Minimum Description Length
J. Rissanen 395

Optimal Hankel-Norm Approximation of Continuous-Time Linear Systems
David W. Lin and Sun-Yuan Kung 407

Rational Approximation via Selective Modal Analysis
George C. Verghese, Ignacio Pérez-Arriaga, and Fred C. Schweppe 433

Singular Value Analysis of Deformable Systems
Edmond A. Jonckheere and Leonard M. Silverman 447

Scattering Theory and Matrix Orthogonal Polynomials on the Real Line
J.S. Geronimo 471