

CONTENTS

Survey papers

| | |
|---|-----|
| De Bruin M.G., Gilewicz J., Runckel H.J. <i>A survey of bounds for the zeros of analytic functions obtained by continued fraction methods.</i> | 1 |
| Kuchminskaya Kh.I., Siemaszko W. <i>Rational approximation and interpolation of functions by branched continued fractions.</i> | 24 |
| Pleśniak W. <i>Polynomial condition of Leja.</i> | 41 |
| Skorobogat'ko V.Ya. <i>Branched continued fractions and convergence acceleration problems.</i> | 46 |
| <u>Polynomial and rational approximation</u> | |
| Draux A. <i>Two-point Padé-type and Padé approximants in an non-commutative algebra.</i> | 51 |
| Dunham Ch.B. <i>Existence of Chebychev approximations by transformations of powered rationals.</i> | 63 |
| Kovacheva R.K. <i>Best Chebyshev rational approximants and poles of functions.</i> | 68 |
| Reczek K. <i>Hyperbolic approximation of meromorphic functions.</i> | 73 |
| Stahl H. <i>Three different approaches to a proof of convergence for Padé approximants.</i> | 79 |
| Werner H. <i>On the continuity properties of the multivariate Padé-operator $T_{m,n}$.</i> | 125 |
| Wronicz Z. <i>The Marchaud inequality for generalized moduli of smoothness.</i> | 134 |
| <u>Continued fractions</u> | |
| Aptekarev A.I., Kalyagin V.A. <i>Analytic properties of two-dimensional continued P-fraction expansions with periodical coefficients and their simultaneous Padé-Hermite approximants.</i> | 145 |
| De Bruin M.G., Jacobsen L. <i>Modification of generalised continued fractions. I. Definition and application to the limit-periodic case.</i> | 161 |

| | |
|--|-----|
| Jacobsen L., Jones W.B., Waadeland H. <i>Convergence acceleration for continued fractions $K(a_n/1)$, where $a_n \rightarrow \infty$.</i> | 177 |
| Jones W.B., Njåstad O., Thron W.J. <i>Perron-Carathéodory continued fractions.</i> | 188 |
| Kuchminskaya Kh.I. <i>On approximation of functions by two-dimensional continued fractions.</i> | 207 |
| Parusnikov V.I. <i>On the convergence of the multidimensional limit-periodic continued fractions.</i> | 217 |
| Paszkowski S. <i>Quelques généralisations de la représentation de réels par des fractions continues.</i> | 288 |
| Waadeland H. <i>Local properties of continued fractions.</i> | 239 |
| <u>Problems related to physics</u> | |
| Antolin J., Cruz A. <i>A Stieltjes analysis of the $K^{\pm p}$ forward elastic amplitudes.</i> | 251 |
| Bessis D., Turchetti G., Van Assche W. <i>Smoothness conditions for Stieltjes measures from Padé approximants.</i> | 270 |
| Lambert F., Musette M. <i>Exact multisoliton properties of rational approximants to the iterated solution of nonlinear evolution equations.</i> | 278 |
| Moussa P. <i>Application of rational approximations to some functional equations.</i> | 295 |
| Pindor M. <i>Operator rational functions and variational methods for the model operator.</i> | 305 |
| <u>Miscellanea</u> | |
| Ammar G.S., Gragg W.B. <i>The generalized Schur algorithm for the superfast solution of Toeplitz systems.</i> | 315 |
| Smarzewski R. <i>Strong unicity in nonlinear approximation.</i> | 331 |