

CONTENTS

A. Mathematical aspects of Padé Approximants and their Generalizations

CHISHOLM J.S.R. COMMON A.K.	Padé-Chebychev- Approximants	1
CORDELLIER F.	Sur la régularité des procédés δ^2 d'Aitken et W de Lubkin	20
CORDELLIER F.	Démonstration algébrique de l'ex- tension de l'identité de Wynn aux tables de Padé non normales	36
CUYT A.	Abstract Padé - approximants in operator theory	61
DELLA DORA J. DI-CRESCENZO C.	Approximation de Padé - Hermite	88
GERMAIN-BONNE B.	Ensembles de suites et de procé- dés liés pour l'accélération de la convergence	116
GILEWICZ J. MAGNUS A.	Valleys in c-table	135
MAGNUS A.	Recurrence coefficients for orthogonal polynomials on connected and non connected sets	150
VAN ROSSUM H.	Orthogonal expansions in indefinite inner product spaces	172

B. Computation of Padé Approximants and related topics.

BREZINSKI C.	Sur le calcul de certains rapports de déterminants	184
BULTHEEL A.	Recursive algorithms for the Padé table: two approaches	211
GRAVES-MORRIS P.R.	The numerical calculation of Padé approximants	231
ROCHE J.R.	Sur le calcul de l'exponentielle d'une matrice	246
WERNER H.	A reliable method for rational interpolation	257

C. Applications of Padé approximation

CLARYSSE T.	Rational predictor-corrector methods for nonlinear Volterra integral equa- tions of the second kind	278
LUKE Y.L.	On a summability method	295
PINDOR M.	Padé approximants and rational functions as tools for finding poles and zeros of analytical functions measured experimentally	338
WAMBECQ A.	Some properties of rational methods for solving ordinary differential equations	352

D. Bibliographies

BREZINSKI C.	Recent references on sequences and series transformations	366
WUYTACK L.	Commented bibliography on techniques for computing Padé approximants	375