

Contents

N. Virchenko

ON SOME GENERALIZATIONS OF THE FUNCTIONS
OF HYPERGEOMETRIC TYPE 233

F. Levron, J. Sabatier, A. Oustaloup, L. Habsieger

FROM PARTIAL DIFFERENTIAL EQUATIONS
OF PROPAGATIVE RECURSIVE SYSTEMS
TO NON INTEGER DIFFERENTIATION 245

I. Aliev

ON THE BOCHNER-RIESZ SUMMABILITY
AND RESTORATION OF μ -SMOOTH FUNCTIONS
BY MEANS OF THEIR FOURIER TRANSFORMS 265

R.M. Peat, W.J. Spratt & A.C. McBride

SPACES OF SMOOTH FUNCTIONS ON \mathbf{R}_+ FOR
MELLIN MULTIPLIER TRANSFORMS 277

R.M. Peat, A.C. McBride

SPACES OF SMOOTH FUNCTIONS ON \mathbf{R}^n
VIA SPHERICAL HARMONICS 289

K. Diethelm

ESTIMATION OF QUADRATURE ERRORS IN TERMS
OF CAPUTO-TYPE FRACTIONAL DERIVATIVES 313

N.G. Samko, S.G. Samko

ON APPROXIMATIVE DEFINITION
OF FRACTIONAL DIFFERENTIATION 329

A.A. Kilbas, J.J. Trujillo

ON THE HANKEL-TYPE INTEGRAL TRANSFORM
IN $\mathcal{L}_{\nu,r}$ -SPACES 343

International Meetings

VIII INTERNATIONAL M. CRAVCHUK CONFERENCE 354

Addresses of the EB Members 355

Order Form, Subscription Details 357

FCAA JOURNAL

INSTITUTE OF MATHEMATICS AND INFORMATICS - BULGARIAN ACADEMY OF SCIENCES

SOFIA 1090 • BULGARIA • FAX: +359 2 9713649

E-MAIL: FCAA@MATH.BAS.BG • VIRGINIA@DIOGENES.BG

HTTP://WWW.DIOGENES.BG/FCAA • HTTP://WWW.MATH.BAS.BG/~FCAA