

Contents

E. Hausenblas, K. Fahim, P.W. Fernando

A PARTICLE FILTER FOR NONLINEAR
FILTERING WITH LÉVY JUMPS817

D. Mondal, P. Debnath

AN APPLICATION OF FRACTIONAL CALCULUS TO
GEOPHYSICS: EFFECT OF A STRIKE-SLIP FAULT ON
DISPLACEMENT, STRESSES AND STRAINS IN
A FRACTIONAL ORDER MAXWELL TYPE
VISCO-ELASTIC HALF SPACE873

R.S. Alvar, A. Sameripour

TOPICS ON THE RESOLVENT OF
NON-SELF-ADJOINT ELLIPTIC DIFFERENTIAL OPERATORS889

C. Munongi, J.M.W. Munganga

OPTIMAL CONTROL OF A POPULATION-VARYING
HETEROSEXUAL HIV/AIDS MATHEMATICAL MODEL901

M.A.R. Ibrahim, N.I. Jaini, K.M.N.K. Khalif

A SHAPLEY TRADE-OFF RANKING METHOD FOR
MULTI-CRITERIA DECISION-MAKING WITH
DEFUZZIFICATION CHARACTERISTIC FUNCTION933

R.J. Abdelghani, M.A. Meraou, M.Z. Raqab

BIVARIATE COMPOUND DISTRIBUTION BASED
ON POISSON MAXIMA OF GAMMA VARIATES
AND RELATED APPLICATIONS957

K. Krishnadas, B. Chanam

L^γ INEQUALITIES
CONCERNING POLYNOMIALS979

M. Sun, Q. Liu

DYNAMICAL BEHAVIORS OF A NEW SIS EPIDEMIC
MODEL ON SCALE-FREE NETWORKS WITH
STOCHASTIC PERTURBATION995

A. Safonyk, I. Ilkiv

ANALYSIS OF SPATIAL NONLINEAR
SYSTEMS OF DIFFUSION TYPE WITH DELAY1013
