Contents

Preface — V

Acknowledgment — VII

Mouez Dimassi
Elliptic differential operators with periodic and oscillating decaying coefficients — 1

Hannes Gernandt and Carsten Trunk
Locally finite extensions and Gesztesy–Šeba realizations for the Dirac operator on a metric graph — 25

E. Savaş
Double lacunary statistically convergent sequences of weight $g$ — 55

R. Zine
Riesz probability distributions on symmetric cones — 63

Ali BenAmor, Rafed Moussa, and Christian Seifert
A note on traces of forms with applications to the Bessel operator — 75

Aymen Ammar, Houcem Daoud, and Aref Jeribi
Pseudospectra of multivalued linear operators — 85

S. Charfi and H. Ellouz
On the frame properties of exponentials associated to analytic families of operators and application — 101

Imen Ferjani, Aref Jeribi, and Bilel Krichen
Invariance of essential spectrum by means of generalized weak demicompactness — 115

Aymen Ammar, Ameni Bouchekoua, and Aref Jeribi
Some results of $S$-pseudospectra of bounded operators in a Hilbert space — 121

Amirouche Berkani, Lamia Seghour, and Nasser-eddine Tatar
Stabilization of a marine riser system by the use of viscoelastic material — 131
Aymen Ammar, Aref Jeribi, and Nawrez Lazrag
**Sequence of linear operators converging in the generalized sense and its essential pseudospectra —— 147**

Sana Bouzidi and Ines Walha
**Left–right essential spectra of one-sided operator matrix and application —— 157**

Amor Fahem, Aref Jeribi, and Najib Kaddachi
**Existence of Solutions for an integral equation of Chandrasekhar type in Banach algebras with respect to the weak topology —— 177**

A. Aberqi, J. Bennouna, and M. Elmassoudi
**Strong evolution problems in Musielak spaces —— 183**

Ibtissem Djerrar, Leïla Alem, and Lahcène Chorfi
**Numerical solution of an axisymmetric inverse heat conduction problem —— 199**

Safia Benmansour, Atika Matallah, and Mustapha Meghnafi
**Multiple solutions for nonlocal elliptic problems with concave–convex nonlinearities and weights —— 207**