

Full Operators and Algebras Generated by Invertible Operators

WILSON R. PACHECO

Departamento de Matemáticas, FEC, Universidad del Zulia, Maracaibo, Venezuela
wpacheco@luz.edu.ve

Presented by Mostafa Mbekhta

Received June 25, 2008

Abstract: In the present work we characterize full operators and show some properties for bounded below nonfull operators. Under the results developed for full operators, we affirmatively respond two questions formulated by Bravo and Feintuch about algebras generated by invertible operators.

Key words: Full operator, approximation by polynomials, bounded below operator.

AMS Subject Class. (2000): 47A05, 47A58, 47B06.

REFERENCES

- [1] J. BRAVO, “Relations between $\text{lat}T$, $\text{lat}T^{-1}$, $\text{lat}T^2$ and operators with compact imaginary parts”, Ph.D. Dissertation, Berkeley, 1980.
- [2] J. ERDOS, Dissipative operators and approximation of inverse, *Bull. London Math. Soc.* **11** (2) (1979), 142–144.
- [3] J. ERDOS, Singly generated algebras containing compact operators, *J. Operator Theory* **2** (2) (1979), 211–214.
- [4] A. FEINTUCH, On invertible operators and invariant subspaces, *Proc. Amer. Math. Soc.* **43** (1) (1974), 123–126.
- [5] A. FEINTUCH, On algebras generated by invertible operators, *Proc. Amer. Math. Soc.* **63** (1) (1977), 66–68.
- [6] A. FEINTUCH, On polynomial approximation of the inverse of an operator, *Linear Algebra Appl.* **389** (2004), 323–328.
- [7] L. ORTUÑOZ, “Condiciones para que un álgebra de operadores este generada por un operador lleno”, Tesis de Maestría del PEAM (LUZ), Maracaibo, 1984.