



# Fredholm and Local Spectral Theory, with Applications to Multipliers

By *Pietro Aiena*

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A significant sector of the development of spectral theory outside the classical area of Hilbert space may be found amongst at multipliers defined on a complex commutative Banach algebra  $A$ . Although the general theory of multipliers for abstract Banach algebras has been widely investigated by several authors, it is surprising how rarely various aspects of the spectral theory, for instance Fredholm theory and Riesz theory, of these important classes of operators have been studied. This scarce consideration is even more surprising when one observes that the various aspects of spectral theory mentioned above are quite similar to those of a normal operator defined on a complex Hilbert space. In the last ten years the knowledge of the spectral properties of multipliers of Banach algebras has increased considerably, thanks to the researches undertaken by many people working in local spectral theory and Fredholm theory. This research activity recently culminated with the publication of the book of Laursen and Neumann [214], which collects almost every thing that is known about the spectral theory of multipliers.

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