

FREDHOLM THEORY IN AN ALGEBRA WITH RESPECT  
TO A BANACH SUBALGEBRA

By BRUCE A. BARNES\*

Department of Mathematics, University of Oregon

[Received 19 September 1999. Read 15 May 2000. Published 16 October 2001.]

ABSTRACT

In this paper, Fredholm and perturbation theory for elements of an algebra with respect to a Banach subalgebra is developed. In this development, ideas from the theory of closed operators are combined with general Fredholm theory in a Banach algebra.