Title: B-Fredholm elements in rings and algebras

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In this paper, we study B-Fredholm elements in rings and algebras. After characterizing these elements in terms of generalized Fredholm elements, we will give sufficient conditions on a unital primitive Banach algebra A, under which we prove that an element of A is a B-Fredholm element of index 0 if and only if it is the sum of a Drazin invertible element of A and an element of the socle of A.

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