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On Pseudo-Inverses of Fredholm Operators

Christoph SCHMOEGER
Institut für Analysis
Arbeitsgruppe Funktionalanalysis
Fakultät für Mathematik
Universität Karlsruhe (TH)
Englerstraße 2
76128 Karlsruhe-GERMANY
e-mail: christoph.schmoeger@math.uni-karlsruhe.de
e-mail: christoph.schmoeger@kit.edu

Abstract: Suppose that A is a Fredholm operator on a Banach space. We prove that A has index =0 (resp. >= 0, resp. <= 0) if and only if A has pseudo-inverse which is invertible (resp. Fredholm and left invertible, resp. Fredholm and right invertible). Furthermore, we determine the interior points of some classes of linear operators.

Key Words: Fredholm operator, pseudo-inverse

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