(P, Q)-OUTER GENERALIZED INVERSE OF BLOCK MATRICES IN BANACH ALGEBRAS

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ABSTRACT. We investigate additive results for (p, q)-outer generalized inverse of elements in Banach algebra, along with the representation of this inverse in a block matrix in the Banachiewicz–Schur form. Additionally, we investigate the (p, q)-pseudospectrum and (p, q)-condition spectrum of a block matrix $x = \begin{bmatrix} a & 0 \\ 0 & b \end{bmatrix}_u$ in a Banach algebra.

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