THE EXPLICIT REPRESENTATIONS OF THE DRAZIN INVERSES OF A CLASS OF BLOCK MATRICES*

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Abstract. Let \( M = \begin{pmatrix} A & B \\ C & D \end{pmatrix} \) be a 2 × 2 block matrix, where \( ABC = 0 \) and either \( DC = 0 \) or \( BD = 0 \). This paper gives the explicit representations of \( M^{D} \) in terms of \( A, B, C, D, A^{D}, (BC)^{D} \) and \( D^{D} \).

Key words. Block matrix, Drazin inverse, Index.

AMS subject classifications. 15A09, 65F20.