

BLOCK REPRESENTATIONS OF THE DRAZIN INVERSE OF A BIPARTITE MATRIX*

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Abstract. Block representations of the Drazin inverse of a bipartite matrix $A = \begin{bmatrix} 0 & B \\ C & 0 \end{bmatrix}$ in terms of the Drazin inverse of the smaller order block product BC or CB are presented. Relationships between the index of A and the index of BC are determined, and examples are given to illustrate all such possible relationships.

Key words. Drazin inverse, Bipartite matrix.

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