

## THE WEIGHTED MOORE–PENROSE INVERSE FOR SUM OF MATRICES

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*Abstract.* In this paper we exhibit that under the rank additivity condition  $r(A+B) = r(A) + r(B)$ , a neat relationship between the weighted Moore-Penrose inverse of  $A+B$  and the weighted Moore-Penrose inverses of  $A$  and  $B$ .

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