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Some studies on the rank of a matrix column over pseudo-ring. (Chinese. English summary)


Summary: We discuss the relation between the maximum column rank and rank of a matrix over pseudo-ring. The conditions for judging the rank of the maximum column of matrix on the pseudo-ring are given. Meanwhile, linear operators of matrix rank preserving and maximum column rank preserving on pseudo-ring are described.

MSC:

15A03 Vector spaces, linear dependence, rank, lineability
15A86 Linear preserver problems

Keywords:

pseudo-ring; rank; column rank; linear operator

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