

MAJORIZATION AND THE MINIMUM NUMBER OF DOMINATING SETS

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A recent Wagner result, which characterizes graphs with minimum number of dominating sets, is based on an earlier characterization restricted to trees. A self-contained proof of both characterizations is presented. Unions of disjoint stars and majorization among related numerical partitions are objects and a tool of investigation. A characterization limited to graphs with upper-bounded domination number is established.

Keywords: counting dominating sets, domination number, majorization, numerical partition.

References

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