MAJORIZATION AND THE MINIMUM NUMBER OF DOMINATING SETS

ZDZISLAW SKUPIEŃ

AGH Kraków

e-mail: skupien@agh.edu.pl

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

