

RECHERCHE

A DIGEST OF MULTIDISCIPLINARY EXPLORATIONS (PEER REVIEWED)



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Vertex Cover, Dominating Sets And The Relation Between Them

Aiswarya Paul¹

Abstract

Vertex cover and dominating sets are two different subsets of the vertex set of a graph which try to cover the entire graph through two different perspectives. While the former covers the edges of the graph, the latter covers its vertices. Just the understanding of the definitions and examples of both induces a dubiety of whether both the sets are equal or whether they can be made equal. This paper attempts to comprehend this by exhibiting a relation between the two sets for simple connected graphs. The case of non- simple, unconnected graphs are entirely different.

Keywords: Simple connected graph, vertex cover, dominating sets, minimal vertex cover, minimal dominating set.

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