

ON RADIO SQUARE SUM D-DISTANCE NUMBER OF GRAPHS

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ABSTRACT

Let $d^D(u, v)$ denotes the D-distance between two distinct vertices of a connected graph G , and $diam^D(G)$ be the D-diameter of G . A Radio square sum D-distance coloring of a connected graph G is an one-to-one mapping $c: V(G) \rightarrow \mathbb{N}$ such that condition holds every two distinct vertices u and v $d^D(u, v) + |[c(u)]^2 + [c(v)]^2| \geq 1 + diam^D(G)$. The $rssn^D(c)$ is the maximal span of G and $rssn^D(G)$ is the minimal span among all $rssn^D(c)$ of G . A graph admitting radio square sum D-distance coloring is called radio square sum D-distance graphs. We discussed a new concept radio square sum D-distance number of certain graphs.

KEYWORDS: Sum Labeling, Square Sum Labeling, Radio Square Sum D-Distance Number

Received: Feb 03, 2021; Accepted: Feb 23, 2021; Published: Mar 17, 2021; Paper Id.: IJMCARJUN20213