

ON RADIO ANALYTIC MEAN Dd - DISTANCE NUMBER OF SOME CYCLE RELATED GRAPHS

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ABSTRACT

A Radio analytic mean Dd -distance labeling of a connect graph G is an injective function h from the vertex set $V(G)$ to the \mathbb{N} such that for two distinct vertices u and v of G , $D^{Dd}(u, v) + \left\lceil \frac{|h(u)^2 - h(v)^2|}{2} \right\rceil \geq 1 + \text{diam}^{Dd}(G)$, where $D^{Dd}(u, v) = D(u, v) + \text{deg}(u) + \text{deg}(v)$, $D^{Dd}(u, v)$ denotes the Dd -distance between u and v $\text{diam}^{Dd}(G)$ denotes the Dd -diameter of G . The radio analytic mean Dd -distance number of h , $\text{ramn}^{Dd}(h)$ is the maximum label assigned to any vertex of G . The radio analytic mean Dd -distance number of h , $\text{ramn}^{Dd}(G)$ is the minimum value of $\text{ramn}^{Dd}(h)$ taken over all radio analytic mean Dd -distance labeling h of G . In this paper we find the radio analytic mean Dd -distance number of some cycle related graphs.

KEYWORDS: Dd -distance, Radio analytic mean Dd -distance & Radio analytic mean Dd -distance number

Received: Feb 03, 2020; Accepted: Feb 23, 2021; Published: Mar 13, 2021; Paper Id.: IJMCAARJUN20212