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ON TADES OF CERTAIN CLASSES OF GRAPHS

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Abstract: A total labeling ξ is defined to be an edge irregular total absolute difference k-labeling of the graph G if for every pair of different edges e and f of G we have $wt(e) \neq wt(f)$ where weight of an edge $e = xy$ is defined as $wt(e) = |\xi(e) - \xi(x) - \xi(y)|$. The minimum k for which the graph G has an edge irregular total absolute difference labeling is called the total absolute difference edge irregularity strength of the graph G, $tades(G)$. In this paper, we compute the total absolute difference edge irregularity strength of the super subdivision of certain families of graphs, corona related graphs and grid related graphs.

Keywords and Phrases: Total absolute difference edge irregularity strength, edge irregularity strength, super subdivision, corona graph.

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