A Study on Covering Extended Distance Energy of Some Graphs

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ABSTRACT

The work of Extended Adjacency Matrix inspired the concept of Covering Extended Distance Matrix. In this manuscript, Covering Extended Distance matrix $\left(A_{exd}^{C} \right)$ is obtained using the degree of the nodes and hence energy is obtained using the sum of the latent values of the matrix $\left(A_{exd}^{C} \right)$. The Covering Extended Distance Energy $\left(E_{exd}^{C} \right)$ for some standard graphs are estimated and few properties of covering extended distance energy are discussed.

Keywords: Determinantal equation, Covering extended distance matrix, Covering Extended distance energy