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GRAPH ENERGY CHANGE DUE TO EDGE DELETION AND EDGE CONTRACTION

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Abstract

The energy of a graph is defined as the sum of the absolute values of the eigenvalues of its adjacency matrix. Jane Day and Wasin So has discussed about the changes in energy of the graph due to the deletion of its edges. In this paper we study about the changes in the energy as well as different forms of energies of the graph due to the edge deletion and the edge contraction.

Key Words : *Graph energy, Distance energy, Skew energy, Laplacian energy, Skew laplacian energy, Edge contraction*

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