

Some New Bounds for a Real Power of the Normalized Laplacian Eigenvalues

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Abstract : For a given a simple connected graph, we present some new bounds via a new approach for a special topological index given by the sum of the real number power of the non-zero normalized Laplacian eigenvalues. To use this approach presents an advantage not only to derive old and new bounds on this topic but also gives an idea how some previous results in similar area can be developed.

Keywords : degree Kirchhoff index, normalized Laplacian eigenvalue, spanning tree, simple connected graph

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