عنوان مقاله:

NEW BOUNDS AND EXTREMAL GRAPHS FOR DISTANCE SIGNLESS LAPLACIAN SPECTRAL RADIUS

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خلاصه مقاله:

The distance signless Laplacian spectral radius of a connected graph G is the largest eigenvalue of the distance signless Laplacian matrix of G, defined as $D^{Q}(G)=Tr(G)+D(G)$, where $D(G)$ is the distance matrix of G and $Tr(G)$ is the diagonal matrix of vertex transmissions of G. In this paper, we determine some new upper and lower bounds on the distance signless Laplacian spectral radius of G and characterize the extremal graphs attaining these bounds.

کلمات کلیدی:

Distance signless Laplacian matrix, spectral radius, extremal graph, transmission regular graph