عنوان مقاله:

SIGNLESS LAPLACIAN SPECTRAL MOMENTS OF GRAPHS AND ORDERING SOME GRAPHS WITH RESPECT TO THEM

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خلاصه مقاله:

Let G = (V, E) be a simple graph. Denote by D(G) the diagonal matrix diag($d_1, \cdots, d_n$), where d_i is the degree of vertex i and A(G) the adjacency matrix of G. The signless Laplacianmatrix of G is Q(G) = D(G) + A(G) and the k-th signless Laplacian spectral moment of graph G is defined as $T_k(G) = \sum_{i=1}^{n} q_i^{k}$, $k \geqslant 0$, where $q_1, q_2, \cdots, q_n$ are the eigenvalues of the signless Laplacian matrix of G. In this paper we first compute the k-th signless Laplacian spectral moments of a graph for small k and then we order some graphs with respect to the signless Laplacian spectral moments.

کلمات کلیدی:

Spectral moments sequence, signless Laplacian, generalized Petersen graph, T–order