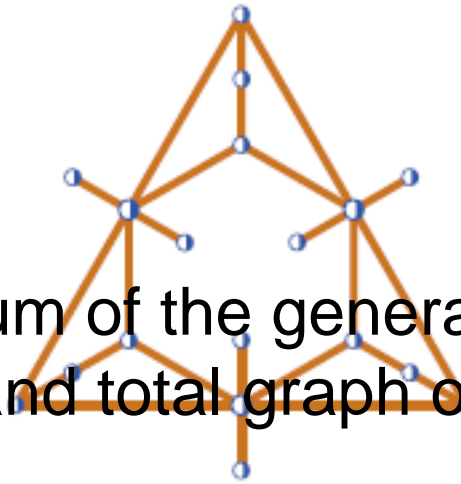


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The spectrum of the generalised middle graph and total graph of a cycle



Content :

The generalised middle graph $M(n,k)$ of a cycle consists of vertices $\{v_0, v_1, \dots, v_{n-1}, u_0, u_1, \dots, u_{n-1}\}$ and edges $\{v_i u_i, v_i u_{i+1}, u_i u_{i+k}, i=0, 1, 2, \dots, n\}$. The generalised total graph $T(n,k)$ of a cycle consists of vertices $\{v_0, v_1, \dots, v_{n-1}, u_0, u_1, \dots, u_{n-1}\}$ and edges $\{v_i v_{i+1}, v_i u_i, v_i u_{i+1}, u_i u_{i+k}, i=0, 1, 2, \dots, n\}$. In this paper we obtain the spectrum of these graphs and also the bounds for the spectral radius of $M(n,2)$ and $T(n,2)$.

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