Eccentric connectivity index of certain classes of cycloalkenes

ABSTRACT

Let G be a simple connected molecular graph. The eccentric connectivity index (G) is defined as $(G)=\hat{U}v V(G)deg(v)ec(v)$, where deg(v) denotes the degree of vertex v and ec(v) is the largest distance between v and any other vertex u G. In this paper, we establish the general formulas for the eccentric connectivity index of molecular graphs of cycloalkenes.

Keyword: Eccentric connectivity index; Molecular graphs; Eccentricity; Cycloalkenes