On the Reconstruction Number of a Unicyclic Graph

Robert Molina, Alma College

The set of all vertex deleted subgraphs of a graph G is called the deck of the graph and denoted $D(G)$. One of the foremost unsolved problems in graph theory to settle the graph reconstruction conjecture which, informally, states that a finite simple undirected graph with at least three vertices is determined by $D(G)$ in which case we say that G is reconstructible. If G is reconstructible, the reconstruction number of G, denoted $RN(G)$, is the size of a smallest subset of $D(G)$ which determines G. In this paper we investigate the reconstruction numbers of unicycle graphs.

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