Connectivity Parmeters in Graphs

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A vertex set $S \subset V$ in a connected graph $G = (V, E)$ is a *cutset* if the graph $G - S$ obtained from G by deleting the vertices in S is not connected. An edge set $S \subset E$ in a connected graph G is an *edge cutset* if the graph $G - S$ obtained by deleting the edges in S is not connected. We introduce and study a variety of new parameters related to vertex and edge cutsets and connectivity in a graph G.