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Cycle-connected graphs. (In English)

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A graph G is called K-connected, K a fixed collection of graphs, if every pair of edges of G is contained in a subgraph S of G, where $S \in K$. The authors discuss C_4-connected graphs, where C_4 is a cycle of length four and compute the constant c'' such that there exists a graph with cn^2 edges ($n = |V(G)|$) in which the largest C_4-connected subgraph has size at most c''.

M.Hager (Leonberg)

Classification:
05C35 Extremal problems (graph theory)
05C38 Paths and cycles
05C40 Connectivity

Keywords:
cycle-connected graphs; multipartite graphs