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Many important results in combinatorics deal with excluded-minor characterizations of classes of graphs and matroids. One famous example of such a result is Kuratowski's Theorem which states that a graph is planar if and only if it is $\{K_5, K_{3,3}\}$ -free. Guoli Ding and Cheng Liu have characterized many classes of graphs that are H -free for graphs H with fewer than twelve edges. We have extended some of their results to the class of regular 3-connected matroids.

Dillon Mayhew and Gordon Royle recently characterized the binary internally 4-connected matroids that are prism-free. As an extension of their result, we have determined the binary internally 4-connected matroids that are (prism + e)-free. (Received December 04, 2012)