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If  $M$  is a matroid with element set  $E$ , and  $S$  is a subset of  $E$ , the restriction of  $M$  to  $S$ , written  $M|_S$ , is the matroid on the set  $S$  whose independent sets are the independent sets of  $M$  that are contained in  $S$ . Its circuits are the circuits of  $M$  that are contained in  $S$  and its rank function is that of  $M$  restricted to subsets of  $S$ . In linear algebra, this corresponds to restricting to the subspace ...  
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Book description. This volume, the third in a sequence that began with The Theory of Matroids and Combinatorial Geometries, concentrates on the applications of matroid theory to a variety of topics from engineering (rigidity and scene analysis), combinatorics (graphs, lattices, codes and designs), topology and operations research (the greedy algorithm).

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