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5. Applications of matroids One application of the unifying concept of a matroid is to find the analogs of an interesting idea in vector spaces to graphs and conversely. However, are there applications of this idea to areas outside of mathematics? Here are two examples where the applicability of ideas in graph theory has used the more abstract setting of matroid theory to find

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Matroid theory and its applications  
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Matroids are of fundamental importance  
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applications extend into electrical and  
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and Combinatorial Geometries,  
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## **Staff View: Matroid theory and its applications**

The theory of matroids has its origins in graph theory and linear algebra, and its most successful applications in the past have been in the areas of combinatorial optimization and network theory.

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topics of this book The concept of a matroid has been known for more than five decades. Whitney (1935) introduced it as a common generalization of graphs and matrices. In the last two decades, ...

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its Applications run by the New Zealand Institute of Mathematics and its Applications in Auckland in July, 2004. This survey of matroid theory will assume only that the reader is familiar with the basic concepts of linear algebra.

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However, like other branches of mathematics, combinatorics also encompasses some general tools that can be learned and then applied, to various problems. Matroid theory is one of these tools. (2) Within combinatorics, the relative importance of algorithms has increased with the spread of computers.

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**Matroid Theory (Oxford Graduate  
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Applications: Equilibrium Models  
Macrosystems are systems in which the  
stochastic behaviour of the elements is  
transformed into deterministic behaviour  
of the system as a whole.

**Matroid Theory and its Applications,**

Seminars: M. Barnabei, A. Brini, G.-C.  
Rota: Un'introduzione alla teoria delle  
funzioni di Möbius.- A. Brini: Some  
remarks on the critical problem.- J.  
Oxley: On 3-connected matroids and  
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## **Matroid Theory and its Applications in Electric Network ...**

A. Recski: Matroid Theory and its Applications, Springer Verlag, 1989  
There are surprisingly few monographs devoted to a comprehensive treatment of matroid theory. There is the everlasting "preliminary version" of Combinatorial Geometries by Crapo and Rota (1970) stressing the lattice-theoretic aspects of the theory.

## **Introduction Cubo 5**

It will be shown that looking at a problem from the viewpoint of matroids enables us to understand the essence of the problem as well as its relations to

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other problems, clearly, preventing us from probable confusion into which we might have been involved without matroids, and that mathematical techniques developed in matroid theory are powerful for manipulating and solving the mathematical ...

### **Matroid Theory and its Applications in Electric Network ...**

TY - JOUR. T1 - Matroid theory and its applications. AU - Faigle, U. PY - 1991. Y1 - 1991. KW - IR-92534. U2 - 10.1007/BF01417522. DO - 10.1007/BF01417522

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## **AMS :: Feature Column from the AMS**

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).

## **Matroid Theory and its Applications**

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Matroid theory borrows extensively from the terminology of linear algebra and graph theory, largely because it is the abstraction of various notions of central importance in these fields. Matroids have found applications in geometry , topology , combinatorial optimization , network theory and coding theory .