

matroid theory pdf

In combinatorics, a branch of mathematics, a matroid / ˈm eɪˈt r ɪˈd / is a structure that abstracts and generalizes the notion of linear independence in vector spaces. There are many equivalent ways to define a matroid, the most significant being in terms of independent sets, bases, circuits, closed sets or flats, closure operators, and rank functions.

Matroid - Wikipedia

GRAPH THEORY Keijo Ruohonen (Translation by Janne Tamminen, Kung-Chung Lee and Robert PichÃ©) 2013

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The intension of this note is to introduce the subject of graph theory to computer science students in a thorough way. This note will cover all elementary concepts such as coloring, covering, hamiltonicity, planarity, connectivity and so on, it will also introduce the students to some advanced concepts.

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In mathematics, and more specifically in graph theory, a graph is a structure amounting to a set of objects in which some pairs of the objects are in some sense "related". The objects correspond to mathematical abstractions called vertices (also called nodes or points) and each of the related pairs of vertices is called an edge (also called an arc or line).

Graph (discrete mathematics) - Wikipedia

Discrete Mathematics provides a common forum for significant research in many areas of discrete mathematics and combinatorics. Among the fields covered by Discrete Mathematics are graph and hypergraph theory, enumeration, coding theory, block designs, the combinatorics of partially ordered sets, extremal set theory, matroid theory, algebraic combinatorics, discrete geometry, matrices, and ...

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This paper studies the notion of W -measurable sensitivity in the context of semigroup actions. W -measurable sensitivity is a measurable generalization of sensitive dependence on initial conditions.

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Texts: Darij Grinberg and Victor Reiner, [Prop] Hopf Algebras in Combinatorics. [Prop] Sourcecode of the notes, and [Prop] a version with solutions to exercises. The paper also appears as arXiv preprint arXiv:1409.8356, but the version on this website is updated more frequently. These notes -- originating from a one-semester class by Victor Reiner at the University of Minnesota -- survey some ...

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