

# Max Flow Min Cut Theorem

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**Lecture 17: Max-Flow Min-Cut Theorem** CS 3510 Algorithms 04/9/2024 Lecture 17: Max-Flow Min-Cut Theorem

Lecturer: Abraham Ladha Scribe(s): Richard Zhang This is the last lecture on this unit of graph algorithms, and one of the most important: Max-Flow Min-Cut. It comes from many real world problems, and can actually be applied to many more real world problems. **Max Flow, Min Cut - Princeton University** Let  $f$  be a flow, and let  $(S, T)$  be any  $s$ - $t$  cut. Then the value of the flow is at most the capacity of the cut. **Max-flow min-cut theorem - Wikipedia** The max-flow min-cut theorem tells us that the maximum amount of water that can reach the city is limited by the smallest total capacity of any set of pipes that, if cut, would completely isolate the reservoir from the city. [Contents NETWORK FLOWS AND THE MAX-FLOW MIN-CUT](#) ( $G; c$ ). The Max-Flow Min-Cut Theorem states that the cut of minimum capacity vertex cut of a network  $N$  is equal to the maximal flow that could travel along that network. To prove this, we begin with the following **Chapter 8 The Max-Flow Min-Cut Theorem**  $G[S]$  and  $G[T]$  are connected for the cuts we actually use (but that's not required for an arbitrary cut). For planar embeddings and some other drawings, it's feasible to draw such a line/curve. *Maxflow Mincut Theorem - Online Tutorials Library* Here's something cool: The Maxflow-Mincut Theorem says that the maximum flow in a network is equal to the total capacity of the smallest set of edges that, if removed, would stop the flow completely. **Max-flow Min-cut Algorithm | Brilliant Math & Science Wiki** 2 days ago · The max-flow min-cut theorem is a network flow theorem. This theorem states that the maximum flow through any network from a given source to a given sink is exactly the sum of the edge weights that, if removed, would totally disconnect the source from the sink.

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