



Separation Edges and Vertices

◆ Definitions

■ Let G be a connected graph

■ A separation edge of G is an edge whose removal disconnects G

■ A separation vertex of G is a vertex whose removal disconnects G

◆ Applications

■ Separation edges and vertices represent single points of failure in a network and are critical to the operation of the network

◆ Example

■ DFW, LGA and LAX are separation vertices

■ (DFW,LAX) is a separation edge

ORD

PVD

LGA

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