Algorithm Design

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John Wiley & Sons

Solution of Exercise C-8.3

The residual capacity of an augmenting path is the minimum capacity of one of its edges. Thus, we are interested in finding a maximum capacity path from s to t. We can perform this computation by using a maximum spanning tree algorithm, which is just like a minimum spanning tree algorithm with all the weights multiplied by -1. The path from s to t in this tree will be a maximum capacity path (using a similar argument used to prove the important fact about minimum spanning trees).