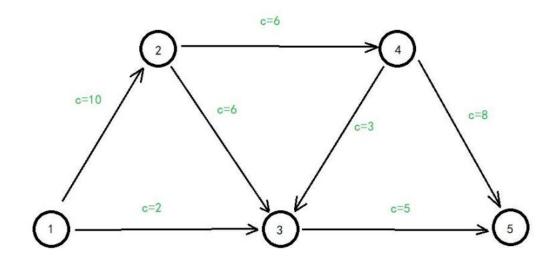
Design and Analysis of Algorithms

- 1. flow network, capacity, flow, saturated edge, residual network, augmenting path (解释流网络的基本概念)
- 2. 给出了一个初始流网络,写出最大 s-t(1-5)流,并给出计算过程



- 3. 对于可行流的任意一个割,割的流量=可行流的流量
- 4. 最大流-最小割定理的证明

The following three conditions are equivalent for any flow f:

- i. There exists a cut (A, B) such that cap(A, B) = val(f).
- ii. f is a max flow.
- iii. There is no augmenting path with respect to f.
- 5. 解释"归约"的概念并证明顶点覆盖归约到集合覆盖