

Ayubx is a verter cover. (Every edge has an endpoint in Ayubx.) over. IF M is a matching and S is a vertex ever, $|M| \leqslant |S|$. We proved, for G Gpv+7e, size of mox matching = v (max flow) = c (min cut)

= I Ay v Bx | and its size equals the wax watching size. König-Egervary Theorem: In an Greatite graph
men marching = min vertex cover. How to find a min cut exciently?
Compute a none flow and then.... (A) A = fall vertices that don't have a path to t with positive capacity left over) (B)) A = { all vertices reachable from s in Ois (c) A = Sall vertices with no ortgoing edges in G3 Project Selection (\$7.11) Given: a set of n projects 11,2,..., n3.

Value of project is 15 V; E // could be positive or negative dependency graph H: a directed graph with vertex set {1,-,n}. Edge (i,j) is that project is is a prerequisite for project j.



