

The Problem

One of our original goals in developing the Maximum-Flow Problem was to be able to solve the Bipartite Matching Problem, and we now show how to do this. Recall that a *bipartite graph* $G = (V, E)$ is an undirected graph whose node set can be partitioned as $V = X \cup Y$, with the property that every edge $e \in E$ has one end in X and the other end in Y . A *matching* M in G is a subset of the edges $M \subseteq E$ such that each node appears in at most one edge in M . The Bipartite Matching Problem is that of finding a matching in G of largest possible size.

Designing the Algorithm

The graph defining a matching problem is undirected, while flow networks are directed; but it is actually not difficult to use an algorithm for the Maximum-Flow Problem to find a maximum matching.

Beginning with the graph G in an instance of the Bipartite Matching Problem, we construct a flow network G' as shown in Figure 7.9. First we direct all edges in G from X to Y . We then add a node s , and an edge (s, x) from s to each node in X . We add a node t , and an edge (y, t) from each node in Y to t . Finally, we give each edge in G' a capacity of 1.

We now compute a maximum s - t flow in this network G' . We will discover that the value of this maximum is equal to the size of the maximum matching in G . Moreover, our analysis will show how one can use the flow itself to recover the matching.



Figure 7.9 (a) A bipartite graph. (b) The corresponding flow network, with all capacities equal to 1.

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Arthur James Wells



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Algorithm Design: A Methodological Approach - 150 problems and detailed solutions Patrick Bosc, Marc Guyomard, Laurent Miclet, 2023-01-31 A bestseller in its French edition this book is original in its construction and its success in the French market demonstrates its appeal It is based on three principles 1 An organization of the chapters by families of algorithms exhaustive search divide and conquer etc On the contrary there is no chapter devoted only to a systematic exposure of say algorithms on strings Some of these will be found in different chapters 2 For each family of algorithms an introduction is given to the mathematical principles and the issues of a rigorous design with one or two pedagogical examples 3 For the most part the book details 150 problems spanning seven families of algorithms For each problem a precise and progressive statement is given More importantly a complete solution is detailed with respect to the design principles that have been presented often some classical errors are pointed out Roughly speaking two thirds of the book is devoted to the detailed rational construction of the solutions

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web in the program a uniform grid spacing and constant time step are used and Δx their values are $\Delta x = 1/30$ with 31 grid points in the domain and $\Delta t = 1/500$ with 500 time steps reaching the final time of 1 second respectively the exact solution is evaluated with 10 terms in the summation

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