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a MinTSP instance  $(C, D)$  by setting  $C = V$  (so  
the cities are the vertices  
of  $G$ ). If  $(v_i, v_j) \in E$   
then set  $D(i, j) = 1$ .  
Otherwise, set  $D(i, j) =$   
 $1 + nr$

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optimization is a topic that consists of finding an optimal object from a finite set of objects. In many such problems, exhaustive search is not tractable. It operates on the domain of those optimization problems in which the set of feasible solutions is discrete or can be reduced to discrete, and

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in which the goal is to find the best solution. Typical problems are the travelling salesman problem, the minimum spanning tree problem, and the knapsack problem. Some research literature

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Combinatorial  
optimization -  
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H contains only one pair  $(s;t)$ , and  $d(s;t) = 1$ , then we have exactly the standard minimum cut problem. Suppose that, in our multicommodity problem, there is a fractional ow of cost  $y$ . Then, for each pair  $(s;t)$  that is cut by  $A$ , the  $yd(s;t)$  units of ow from  $s$  to  $t$  must pass through edges of  $E$ .

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Edition. by G. Ausiello

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documents the state of  
the art in combinatorial  
optimization, presenting  
approximate solutions  
of virtually all relevant  
classes of NP-hard  
optimization problems.



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optimization is an  
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operations research and  
mathematics, especially  
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which deals with new  
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volume contains 17  
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of complexity and  
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by co-authors,  
colleagues, friends, and  
students of Ker-I Ko.

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State precisely what it  
means to reduce one  
problem to another, and  
construct reductions for  
simple examples.

Classify optimisation  
problems into  
appropriate  
approximation  
complexity classes and

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