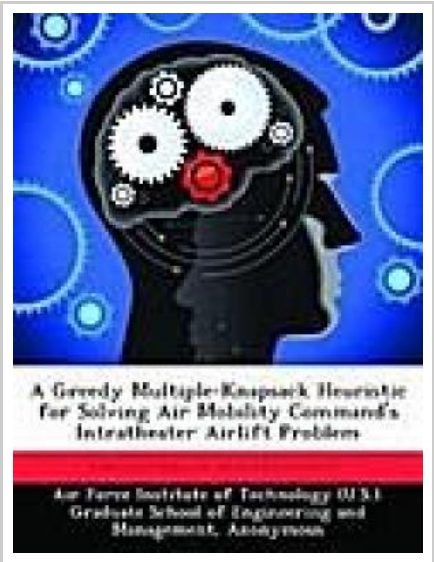

A Greedy Multiple-Knapsack Heuristic for Solving Air Mobility Command's Intratheater Airlift Problem

By Air Force Institute of Technology (U. S.). Graduate School of Engineering and Management

Bibliioscholar Sep 2012, 2012. Taschenbuch. Book Condition: Neu. 246x189x4 mm. This item is printed on demand - Print on Demand Neuware - This research develops a methodology using a greedy heuristic to solve Air Mobility Command's intratheater airlift scenario as a multiple knapsack problem. The objective is to maximize throughput in a theater given a vehicle mixture and assignment scheme. The model allows for a heterogeneous, user defined vehicle mix in a theater consisting of up to five bed down locations and up to seven forward operating locations. First, we preprocess routes, eliminating the large number of unattractive route choices in the problem. Then using a greedy heuristic, we select routes and assign them to aircraft located at any or all of the bed down locations. The model is tested by measuring the utilization rate of the vehicles as well as the maximum throughput of the scenario and the equality of distribution to the receiving bases. 60 pp. Englisch.

Reviews

I just began looking over this pdf. It is one of the most amazing pdf i have study. I discovered this book from my dad and i recommended this pdf to understand.

-- ***Merritt Kilback II***

Good e book and useful one. I have got read and that i am confident that i will likely to go through once more again later on. It is extremely difficult to leave it before concluding, once you begin to read the book.

-- ***Angela Blick***