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Fulkerson [1], is an algorithm that computes the solution to the minimum-cost flow problem in a flow network. To begin, the algorithm starts with an initial flow along the arcs and a number for each of the nodes in the network. By making use of Complementary Slackness Optimality Conditions (CSOC) [2], the algorithm searches for out-of-kilter arcs (those that do not satisfy CSOC conditions). If none are found the algorithm is complete. For arcs that do not satisfy the CSOC theorem, the flow needs to be increased or decreased to bring them into kilter. The algorithm will look for a path that either increases or decreases the flow according to the need. This is done until all arcs are in-kilter, at which point the algorithm is complete. If no paths are found to improve the system then there is no feasible flow. The Out-of-Kilter algorithm is applied to find the optimal solution to any problem that involves network flows. This includes problems such as transportation, assignment and shortest path problems. Computer solutions using a Pascal program and Matlab are demonstrated. Keywords: Network flow diagram nodes arcs source sink capacity residual capacity node potentials reduced cost augmenting path feasible solution optimal solution complementary slackness optimality condition Kilter diagram Out-of-Kilter algorithm transportation problem assignment problem shortest path problem. Moolman, W. H. (2020). The Out-of-Kilter Algorithm and Its Applications to Network Flow Problems. Asian Journal of Probability and Statistics, 7(3), 76-97. Fulkerson DR. An out-of-kilter method for minimal cost flow problems. Journal of the Society for Industrial and Applied Mathematics. 1961;9(1):18-27. Ahuja RK, Magnanti TL, Orlin JB. Network flows theory, algorithms and applications. Upper Saddle River, New Jersey, Prentice-Hall; 1993. Busacker RG, Gowen PG. 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