



Designing Communcation Networks with Hop Restrictions (Classic Reprint)

By Kemal Atinkemer

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Designing Communcation Networks With Hop Restrictions The topological design of a computer/communication network depends on three main considerations - investment and operating cost, transmission delays, and network reliability. Design models that explicitly account for all three criteria are complex optimization problems that can be solved only by heuristic methods. In this paper, we propose a design model that uses hop constraints to control delays and improve reliability. The hop constraints specify an upper limit on the number of channels over which messages can be transmitted. Reducing the number of hops decreases the average message delay and increases the number of alternate transmission routes; this improvement in network performance is, of course, accompanied by an increase in the total cost of the communication system. To study this tradeoff, we develop a Lagrangian relaxation-based algorithm to identify cost-minimizing network designs that satisfy all internode traffic requirements and hop restrictions. By systematically varying the hop restrictions, this method generates alternative configurations with different cost, delay, and reliability characteristics. Our model, thus, serves as a valuable decision support tool...



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