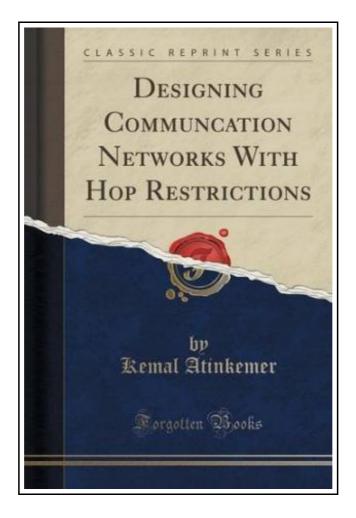
Designing Communcation Networks with Hop Restrictions (Classic Reprint)



Filesize: 4.29 MB

Reviews

These kinds of publication is the ideal pdf offered. It generally is not going to expense too much. I am just delighted to let you know that this is actually the very best book i have go through inside my very own life and might be he finest ebook for ever.

(Mabelle Schoen)

DESIGNING COMMUNCATION NETWORKS WITH HOP RESTRICTIONS (CLASSIC REPRINT)



To read **Designing Communcation Networks with Hop Restrictions (Classic Reprint)** eBook, remember to refer to the web link listed below and save the ebook or have accessibility to other information which might be relevant to DESIGNING COMMUNCATION NETWORKS WITH HOP RESTRICTIONS (CLASSIC REPRINT) ebook.

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Designing Communication 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 which the network designer can use to assess the cost impact of different performance specifications, and select a design that achieves the proper balance between conflicting objectives. We report results for extensive computational tests of the algorithm using several randomly generated test problems. Our results demonstrate that, even for relatively large problems, the method identifies good heuristic solutions and tight lower bounds that confirm the near-optimality of the selected designs. Using a 25-node example, we illustrate how the model can be used to evaluate the cost versus performance tradeoff. About the Publisher Forgotten Books publishes hundreds of thousands of rare...

- Read Designing Communication Networks with Hop Restrictions (Classic Reprint)
 Online
- Download PDF Designing Communcation Networks with Hop Restrictions (Classic Reprint)
- Download ePUB Designing Communcation Networks with Hop Restrictions (Classic Reprint)

Relevant Kindle Books



[PDF] History of the Town of Sutton Massachusetts from 1704 to 1876

Follow the web link beneath to read "History of the Town of Sutton Massachusetts from 1704 to 1876" document.

Download Book »



[PDF] Crochet: Learn How to Make Money with Crochet and Create 10 Most Popular Crochet Patterns for Sale: (Learn to Read Crochet Patterns, Charts, and Graphs, Beginner's Crochet Guide with Pictures)

Follow the web link beneath to read "Crochet: Learn How to Make Money with Crochet and Create 10 Most Popular Crochet Patterns for Sale: (Learn to Read Crochet Patterns, Charts, and Graphs, Beginner's Crochet Guide with Pictures)" document.

Download Book »



[PDF] 31 Moralistic Motivational Bedtime Short Stories for Kids: 1 Story Daily on Bedtime for 30 Days Which Are Full of Morals, Motivations Inspirations

Follow the web link beneath to read "31 Moralistic Motivational Bedtime Short Stories for Kids: 1 Story Daily on Bedtime for 30 Days Which Are Full of Morals, Motivations Inspirations" document.

Download Book »



[PDF] The Voyagers Series - Europe: A New Multi-Media Adventure Book 1

Follow the web link beneath to read "The Voyagers Series - Europe: A New Multi-Media Adventure Book 1" document.

Download Book »



[PDF] No Friends?: How to Make Friends Fast and Keep Them

Follow the web link beneath to read "No Friends?: How to Make Friends Fast and Keep Them" document.

Download Book »



[PDF] Never Invite an Alligator to Lunch!

Follow the web link beneath to read "Never Invite an Alligator to Lunch!" document.

Download Book »



[PDF] Valley Forge: The History and Legacy of the Most Famous Military Camp of the Revolutionary War

Access the web link listed below to download "Valley Forge: The History and Legacy of the Most Famous Military Camp of the Revolutionary War" document.

Save Document »



[PDF] American Legends: The Life of Josephine Baker

Access the web link listed below to download "American Legends: The Life of Josephine Baker" document.

Save Document »



[PDF] Chicken Licken - Read it Yourself with Ladybird: Level 2

Access the web link listed below to download "Chicken Licken - Read it Yourself with Ladybird: Level 2" document.

Save Document »



[PDF] Learn em Good: Improve Your Child s Math Skills: Simple and Effective Ways to Become Your Child s Free Tutor Without Opening a Textbook

Access the web link listed below to download "Learn em Good: Improve Your Child s Math Skills: Simple and Effective Ways to Become Your Child s Free Tutor Without Opening a Textbook" document.

Save Document »



[PDF] The Clever Detective Boxed Set (a Fairy Tale Romance): Stories 1, 2 and 3

Access the web link listed below to download "The Clever Detective Boxed Set (a Fairy Tale Romance): Stories 1, 2 and 3" document.

Save Document »



[PDF] Ladies-In-Waiting (Dodo Press)

Access the web link listed below to download "Ladies-In-Waiting (Dodo Press)" document.

Save Document »