

## COMPUTERIZED COSTING MODEL FOR INLAND WATERWAYS BARGE TRANSPORTATION\*

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**ABSTRACT.** Shippers and carriers are constantly in need of substantial amounts of transportation cost information: shippers are looking for the most economical means of moving freight; carriers need information to determine rates that attract or retain business.

The model presented in this paper calculates the costs associated with shipping by barge via the Inland Waterways System. It does so with great improvements in time, money and accuracy over a previously used manual method.

### Introduction

Many companies, having exhausted the large savings potentials in production areas in their present operations, are turning to other areas to reduce business costs. Transportation is one of these areas that promises tremendous savings. The computer provides the means for obtaining the information necessary to take advantage of situations where inroads to cost savings can be made.

On the other side of the transportation coin, carriers are finding competition more and more intense. This is especially true in the case of competing modes of transportation. Computer information can provide the edge a carrier needs to retain his current business, as well as attract new customers.

This article will deal with a computer program which provides cost information on barge movements on the Inland Waterways System. The model underlying the program covers the entire concept of barge costing, including linehaul costs, terminal costs at the origin, as well as the destination, cargo insurance, and inventory expenses for both general and dedicated towing services.

### The model and its advantages

The barge costing program is currently being used in its latest form by both the Phillips Petroleum Company and the Missouri Pacific Railroad. It was modeled on a manual method previously developed for the same purpose. The advantages do not come from an improved method, but rather from time savings, a savings in the cost of generating data, and the elimination of errors in calculation.

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\*Extracted from an unpublished Master's thesis by Marc L. Smith, "A Model for Barge Cost Optimization," University of Missouri-Rolla, 1977.

# Manual For Completion Of Computerized Transportation

**United States. Naval Education and  
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## **Manual For Completion Of Computerized Transportation:**

Instructions for Completing the Annual Survey of Manufactures Report, 1988, 1988 **Report of the Chief of the Bureau of Public Roads** United States. Bureau of Public Roads, 1961 **The Practical OPNET User Guide for Computer Network Simulation** Adarshpal S. Sethi, Vasil Y. Hnatyshin, 2012-08-24 One of the first books to provide a comprehensive description of OPNET IT Guru and Modeler software The Practical OPNET User Guide for Computer Network Simulation explains how to use this software for simulating and modeling computer networks The included laboratory projects help readers learn different aspects of the software in a hands on way Quickly Locate Instructions for Performing a Task The book begins with a systematic introduction to the basic features of OPNET which are necessary for performing any network simulation The remainder of the text describes how to work with various protocol layers using a top down approach Every chapter explains the relevant OPNET features and includes step by step instructions on how to use the features during a network simulation Gain a Better Understanding of the Whats and Whys of the Simulations Each laboratory project in the back of the book presents a complete simulation and reflects the same progression of topics found in the main text The projects describe the overall goals of the experiment discuss the general network topology and give a high level description of the system configuration required to complete the simulation Discover the Complex Functionality Available in OPNET By providing an in depth look at the rich features of OPNET software this guide is an invaluable reference for IT professionals and researchers who need to create simulation models The book also helps newcomers understand OPNET by organizing the material in a logical manner that corresponds to the protocol layers in a network Work of the Public Roads Administration United States. Bureau of Public Roads, 1965 *Highway Progress* United States. Bureau of Public Roads, 1963 **Lowe's Transport Manager's and Operator's Handbook 2014** David Lowe, Clive Pidgeon, 2014-03-03 This best seller for busy fleet operators now in its 44th edition provides essential information and advice on transport legislation technical standards and goods vehicle operations Lowe's Transport Manager's and Operator's Handbook is a truly comprehensive guide to the legal operational and environmental factors that are of the utmost importance in today's road transport industry including professional competence working times and driving hours rules speed cameras and penalties the international road haulage market and drugs testing for drivers The Handbook is the essential reference source for any transport manager fleet operator owner driver haulier or student with an involvement in the industry **Innovation in Public Transportation**, 1974 Annual Department of Defense Bibliography of Logistics Studies and Related Documents United States. Defense Logistics Studies Information Exchange, 1967 **Computer-Integrated Manufacturing Handbook** V.D. Hunt, 2012-12-06 Manufacturing has entered the early stages of a revolutionary period caused by the convergence of three powerful trends The rapid advancement and spread of manufacturing capabilities worldwide has created intense competition on a global scale The emergence of advanced manufacturing technologies is dramatically

changing both the products and processes of modern manufacturing. Changes in traditional management and labor practices, organizational structures and decision making criteria represent new sources of competitiveness and introduce new strategic opportunities. These trends are interrelated and their effects are already being felt by the U.S. manufacturing community. Future competitiveness for manufacturers worldwide will depend on their response to these trends. Based on the recent performance of U.S. manufacturers, efforts to respond to the challenges posed by new competition technology and managerial opportunities have been slow and inadequate. Domestic markets that were once secure have been assailed by a growing number of foreign competitors producing high quality goods at low prices. In a number of areas such as employment, capacity utilization, research and development expenditures and capital investment trends in U.S. manufacturing over the last decade have been unfavorable or have not kept pace with major foreign competitors such as Japan. There is substantial evidence that many U.S. manufacturers have neglected the manufacturing function, have overemphasized product

development at the expense of process improvements and have not begun to make the adjustments that will be necessary to be competitive. Computer-Aided Transit Scheduling Joachim R. Daduna, Anthony Wren, 2012-12-06. This volume consists of

papers presented at the Fourth International Workshop on Computer Aided Scheduling of Public Transport which was held in Hamburg from 28th to 31st July 1987. The first of this series of Workshops was held in Chicago in 1975. Papers presented then tended to look forward to what might be done in the future application of computers to problems in transit scheduling. No presentations described systems which had been implemented and were being used on a regular basis although a few papers discussed apparently successful one off applications in both bus scheduling and bus crew scheduling or run cutting. However within a few months of the end of that first workshop some systems had been implemented both in Europe and in North America. By the time of the second Workshop in Leeds in 1980 several systems were in regular use. Most of the crew scheduling implementations were based on heuristic methods e.g. RUCUS although mathematically based methods were being used in Quebec City and in Hamburg and several papers described further mathematical methods in the course of development. A wide variety of bus scheduling approaches was reported many of them being in regular use. *Urban Mass Transportation Abstracts*, 1972.

**Computer-aided Scheduling and Dispatch in Demand-responsive Transit Services**

David S. Kessler, Transit Cooperative Research Program, 2004. The scope of this synthesis is to 1 search out useful information on the use of computer aided scheduling and dispatch (CASD) in demand responsive transit (DRT) services 2 develop an amalgamation or compendium of the current knowledge and successful practices used in computerizing the functions necessary to efficiently and effectively operate such DRT services and 3 report on measures used to resolve specific problems in planning and implementing CASD. The ultimate objective in compiling a considerable storehouse of information is to make this information available to the public transit community. Private and nonprofit organizations that are providing DRT services will similarly benefit from a review of these results. Urban Transportation Abstracts, 1987. Standard and

Optional Forms Facsimile Handbook ,1992      **Annual Report on Hazardous Materials Transportation** ,1991      Annual Report - Department of Transportation United States. Department of Transportation,1974      *11th National Computer Security Conference* ,1988      **Materials Handling Handbook** Raymond A. Kulweic,1991-01-16 Sponsored jointly by the American Society of Mechanical Engineers and International Material Management Society this single source reference is designed to meet today s need for updated technical information on planning installing and operating materials handling systems It not only classifies and describes the standard types of materials handling equipment but also analyzes the engineering specifications and compares the operating capabilities of each type Over one hundred professionals in various areas of materials handling present efficient methods procedures and systems that have significantly reduced both manufacturing and distribution costs      **Data Systems Technician 3 & 2** United States. Naval Education and Training Command,1978      *Reporting Manual for the ... Section 15 Report Year* United States. Federal Transit Administration,1994

The Top Books of the Year Manual For Completion Of Computerized Transportation The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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