

SKRIPSI

**PENYELESAIAN MASALAH TRANSPORTASI DENGAN METODE
BILQIS CHASTINE ERMA DAN KOMPARASINYA DENGAN METODE
*NORTH WEST CORNER, LEAST COST, DAN VOGEL'S APPROXIMATION***

***SOLVING TRANSPORTATION PROBLEM WITH BILQIS CHASTINE
ERMA METHOD AND ITS COMPARISON WITH NORTH WEST CORNER,
LEAST COST, AND VOGEL'S APPROXIMATION METHOD***



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2023

HALAMAN PENGESAHAN

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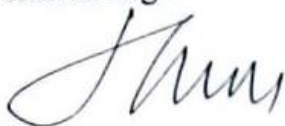
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ABSTRAK

PENYELESAIAN MASALAH TRANSPORTASI DENGAN METODE *BILQIS CHASTINE ERMA* DAN KOMPARASINYA DENGAN METODE *NORTH WEST CORNER*, *LEAST COST*, DAN *VOGEL'S* *APPROXIMATION*

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Masalah transportasi adalah masalah program linear khusus. Masalah transportasi bertujuan untuk meminimalkan biaya transportasi. Terdapat berbagai metode yang dapat digunakan, salah satunya adalah metode *Bilqis Chastine Erma* yang merupakan metode baru dalam mencari solusi fisibel suatu masalah transportasi. Pada Tugas Akhir ini, dilakukan pengkajian algoritma metode *Bilqis Chastine Erma* dalam penyelesaian masalah transportasi, beserta komparasi total biaya transportasi dari solusi fisibelnya menggunakan metode *North West Corner*, *Least Cost*, dan *Vogel's Approximation*. Berdasarkan contoh kasus yang diberikan, metode *Bilqis Chastine Erma* selalu memiliki hasil lebih baik dibandingkan metode *NorthWest-Corner*, *Least-Cost*, dan *Vogel's Approximation*.. Pada pencarian hasil optimal, metode *Bilqis Chastine Erma* selalu menghasilkan solusi yang optimal.

Kata Kunci: Masalah Transportasi, Solusi Fisibel, Solusi Optimal, *Bilqis Chastine Erma*

ABSTRACT

SOLVING TRANSPORTATION PROBLEM WITH BILQIS CHASTINE ERMA'S METHOD AND ITS COMPARISON WITH NORTH WEST CORNER, LEAST COST, AND VOGEL'S APPROXIMATION METHOD

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Transportation problem is a special linear programming problem. Transportation problem aiming to minimize the transportation costs. There are some methods that can be used, one of them is Bilqis Chastine Erma's method which known as a new method to find a new feasible solution of a transportation problem. In this final project, algorithm of Bilqis Chastine Erma's method studied in solving transportation problems and its comparison of the total transportation costs of the feasible solution using North West Corner, Least Cost, and Vogel's Approximation methods. Based on the examples given, Bilqis Chastine Erma's Method is always better than the results of NorthWest-Corner, Least Cost, and Vogel's Approximation Methods. In the investigation of the optimal results, Bilqis Chastine Erma's method always has an optimal solution.

Keywords: Transportation Problem, Initial Basic Feasible Solution, Optimal Solution, Bilqis Chastine Erma