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~~PART 2 | MODI Method | UV
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Test for Optimality [MODI
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Problem **UNBALANCED**

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~~problem ll [hindi] Vogel~~

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Transportation Problem |

MODI method | IBFS

Optimality Check | UV Method

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T4.2 Second Solution to the
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100 100 300 \$4 \$3 300 \$9 \$7

\$5 300 700 200 200 200 TABLE

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Academia.edu The MODI

(modified distribution)

method allows us to compute

improvement indices quickly

for each unused square

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without drawing all of the closed paths. Because of this, it can often provide considerable time savings over other methods for solving

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and Vogel's Approximation

Method (VAM). MODI METHOD

The MODI (modified

distribution) method

allows us to compute

improvement indices quickly

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Since there is no negative
index computed, it means
that using the MODI method,

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the VAM solution is the
optimal solution of the
company. The Improvement
Indices (I_{ij}) are computed

as follows: RA-W2 index = 25

- R1 - K2 = 25 - 0 - 10 = 15

RB-W1 index = 15 - R2 - K1 =

15 - (-2) - 10 = 7 RB-W3

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$$\begin{aligned} \text{index} &= 8 - R_2 - K_3 = 8 - \\ (-2) - 10 &= 0 \quad R_2 - W_3 \quad \text{index} = \\ 0 - R_3 - K_3 &= 0 - (-10) - 10 \\ &= 0 \end{aligned}$$

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Problems: MODI and VAM
Methods Since there is no
negative index computed, it
means that using the MODI
method, the VAM solution is
the optimal solution of the
company. The Improvement
Indices (I_{ij}) are computed

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as follows: $RA - W2 \text{ index} = 25$
 $R1 - K2$

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& VAM Methods Prof. (Dr.)

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This Transportation Problem
has been solved with two
techniques for solving
transportation problems: the
MODI method and Vogel's

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Page: 1, Published: 2017-09

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In this paper, an optimal solution of Transportation programming problem has been considered. To obtain initial basic feasible solution (IBFS), the work shown here is done with Vogel's approximation method

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(VAM). The MODI method is
applied for

~~(PDF) A VAM AND MODI METHOD
TO SOLVE THE OPTIMALITY FOR
...~~

Transportation Problem | Set
6 (MODI Method - UV Method)

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There are two phases to solve the transportation problem. In the first phase, the initial basic feasible solution has to be found and the second phase involves optimization of the initial basic feasible solution that

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was obtained in the first phase. There are three methods for finding an initial basic feasible solution,

~~Transportation Problem | Set
6 (MODI Method — UV Method~~

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Metode Modi (Modified Distribution) 3. Metode VAM (Vogel's Approximation Method) Pada sesi ini hanya akan dibahas mengenai metode transportasi dengan metode VAM, sedangkan metode

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Stepping Stone dan MODI
sudah dibahas pada sesi
tulisan sebelumnya. Metode
VAM.

~~METODE TRANSPORTASI~~

~~APROKSIMASI VOGEL (VAM) |~~

~~digensia~~

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Solve the transportation problem using modi method and calculate the total minimum cost and generate iterations for your transportation problem using the below MODI calculator. This calculator helps you to

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find the unused route with
the largest negative
improvement index. Enter the
number of rows and columns
and the values for supply
and demand ...

~~MODI Calculator |~~

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~~Transportation Problem using
MODI Method~~

In general, we let The MODI method then requires five steps: 1. To compute the values for each row and column, set $R_i + K_j = C_{ij}$ but only for those squares

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that are currently used or occupied. For example, if the square at the intersection of row 2 and column 1 is occupied, we set $R_2 + K_1 = C_{21}$. 2. After all equations have been written, set $R_1 = 0$. 3.

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~~3 MODI VAM — Online Tutorial
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~~...~~

Method (VAM) merupakan metode yang lebih mudah dan lebih cepat untuk digunakan dalam mengalokasikan sumber

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... perhitungan dengan
metode MODI, menghitung

nilai baris dan kolom . 25

Ke Dari Gudang A=20 Gudang

B=5 Gudang C=-5 Gudang D=0

Kapasitas Pabrik Pabrik W=0

50 90 Pabrik H=15 60 Pabrik

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~~METODE VOGEL'S APPROXIMATION
(VAM)~~

Vogel's Approximation Method

Definition: The Vogel's

Approximation Method or VAM

is an iterative procedure

calculated to find out the

initial feasible solution of

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Solving Transportation problem.

Like Least cost Method, here also the shipping cost is taken into consideration, but in a relative sense.

~~What is Vogel's
Approximation Method?~~

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and Vogel's Approximation
Method (VAM). MODI METHOD

The MODI (modified
distribution) method allows
us to compute improvement
indices quickly for each
unused square

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~~Solving MODI & VAM Problems
Methods~~

Definition: The Modified
Distribution Method or MODI
is an efficient method of
checking the optimality of
the initial feasible

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solution. The concept of
MODI can be further
comprehended through an
illustration given below:

Initial basic feasible
solution is given below:

Now, calculate the values of
 u_i and v_j by using the

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equation: $u_i + v_j = C_{ij}$.

~~What is Modified
Distribution Method?
definition and ...~~

NOTE: Formula " $p_{ij} = u_i + v_j - C_{ij}$ " according to this formula the optimal values

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should be zero or less than
zero which mean zero or
negative values, and in
this...

~~Transportation problem [~~
~~MODI method — U V method~~
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#VAM #MODImethod
#Transportationproblem In
this I just explained the
Vogel's approximate METHOD
with Modifications method
.RIM condition and Total
cost which is same into in
other method of ...

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~~VAM with MODI method ||
important for transportation
problem ||~~

Pada dasarnya masalah transportasi merupakan masalah LP yang dapat diselesaikan dengan metode

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simpleks. Karena metode simpleks menimbulkan penyelesaian yang lebih sulit, maka penyelesaian masalah transportasi akan lebih mudah dengan menggunakan metode Stepping Stone, Vogel's Approximation

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Methods (VAM), dan metode
MODI (Modified
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This text, now in the Third Edition, aims to provide students with a clear, well-structured and comprehensive treatment of the theory and applications of operations

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integer programming models.
Various techniques to solve
OR problems' faced by
managers are also discussed.
Separate chapters are
devoted to Linear
Programming, Dynamic

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help in the decision-making
process. The text
facilitates easy
comprehension of topics by
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Outlines-Problem Solved.
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Communication Technologies
(ICT) impact the ways firms
are organised and managed,
and as a consequence change
the practical means used to
conduct business operations.
The features of this book
are threefold. System

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approach to business
modelling: Business
activities, controlling
functions and associated
information systems are
described within a coherent
analytical system framework
allowing a clear

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Understanding of the various
current control and costing
concepts. Operations costing
is not usually included in
textbooks as part of
operations management, but
it should be. Cost targeting
has become an integral part

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of good practice of business management. Validity of models: Apparently simple models are analyzed in depth. Students must be fully aware of the assumptions made when models are formulated and of their

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conditions of validity.

Applying a model implies automatically that

assumptions of a sort are taken for granted.

Logistics, procurement and quality management: These three business functions are

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critical key success factors
for managing e-enabled
supply chains from suppliers
to customers. That is why
their main tools are
introduced in this document.

This book elucidates the

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basic concepts and applications of operations research. Written in a lucid, well-structured and easy-to-understand language, the key topics are explained with adequate depth and self-explanatory flow charts. A

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examples and end-of-chapter
exercises makes this book an
ideal companion for active
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Linear programming is one of
the techniques of operations

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research. It is a mathematical method of determining the most effective of many possible solutions to operational problems involving many variables. The other most prominent techniques of O.R.

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are the probability theory,
the queuing theory, the
Monte Carlo theory, the
theory of games, symbolic
logic, and statistics.

Operations research uses all
of these tools in its goal
of providing executives with

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better quantitative
information from which to
make predictions and
decisions. Of all the
techniques of operations
research, linear programming
has the widest scope of
application for industry and

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government yet is the
simplest of the O.R.

Technique to use. Linear
programming can be used for
optimization problems in
which the following
conditions are satisfied: 1)
There must exist an

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objective, such as profit or cost which is to be optimized and which can be expressed by a linear function. 2) There must be restrictions on the amount or extent of attainment of the objective and these

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restrictions on the amount or extent of attainment of the objective and these restrictions must be expressible by a system of linear equalities or inequalities. Even with the restriction of linearity,

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linear programming can solve the quantitative aspects of such diversified problems as: machine loading, production scheduling, material handling, product mix, warehouse location, shipping schedules, job

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Classification, inventory control, overtime premium, methods comparisons, make or purchase options and practically any cost comparison. The most frequently used procedures for solving linear

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Solving Transportation problems are the Simplex method, the MODI (Modified Distribution) method, the Transportation method, Vogel's Approximation method (VAM), and the Index method. The original method of solving

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linear programming problems,
the Simplex method, is
capable of solving any type
of linear programming
problem. Its solution is
time-consuming. The need fo
simpler and faster means let
to the development of the

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Transportation, or
Distribution, method and
later to other methods. The
MODI method was developed as
a consequence of the same
challenge. These two methods
gave up range of
applicability for speed and

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simplicity. They are restricted by the requirement that all data of the problem be expressed numerically in the same units. The Transportation method handles shipping or distribution problems

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efficiently. The MODI method can also handle these problems but has its most efficient use in production scheduling problems.

Although the first three methods above are completely accurate, the sheer quantity

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Solving arithmetic involved makes it almost essential to have electronic computing equipment to obtain answers in time to be useful. To provide a means of solving problems without the expense of electronic computers and

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where time is at a premium or when the problem has to be resolved frequently, the short-cut methods have been developed. Each is easily computed, with pencil and paper. Vogel's Approximation method (VAM) can solve

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traffic, production, and inventory control problems easily while the Index method is restricted to machine loading problems. Either of these methods gives the best answer of a very close approximation to

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the best answer, making them ideal for problems which previously have been solved by judgment alone. There is evidence that linear programming has had little utilization in industrial application. The failure to

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use so effective an administrative tool must rest on a deficiency of understanding by those who might find it extremely valuable. This thesis endeavors to bring a clear and simplified analysis of

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linear programming that
could be understood by a
wider range of
administrative personnel
than are now acquainted with
it. A program can be
prepared and evaluated for a
cost no greater than that of

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about six months' time for a qualified person selected from within the organization to be studied. A proposed program can be compared against the one already in existence before any alterations are necessary.

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Linear programming is a valuable tool that warrants serious consideration by administrators for aid in quantitative decision making.

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