

At node 2,

$$V_2 - V_3 = 10J_2$$

Then

$$J_2 = \frac{(V_2 - V_3)}{2}$$

Then

$$V_2 - V_3 = \frac{10(V_2 - V_3)}{2}$$

Simplifying, we get

$$-5V_2 + V_2 - V_3 + 5V_3 = 0$$

From supernodes 1 and 3, we have

$$\frac{V_3}{10} + \frac{V_3 - V_1}{5} + \frac{V_3}{4} + \frac{V_3 - V_2}{15} = 0$$

Simplifying, we get

$$-0.28V_1 + 0.45V_2 + 0.3667V_3 - 0.06667V_4 = 0$$

At node 4, we have

$$V_4 = 10$$

In matrix form,

$$\begin{bmatrix} 0.75 & -0.2 & 0 & -0.5 \\ -5 & 1 & -1 & 5 \\ -0.2 & 0.45 & 0.3667 & -0.06667 \\ 0 & 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} V_1 \\ V_2 \\ V_3 \\ V_4 \end{bmatrix} = \begin{bmatrix} 5 \\ 0 \\ 0 \\ 10 \end{bmatrix}$$

The MATLAB program for solving the nodal voltages is

MATLAB Script

```
%clear all; clc;
%this program computes the nodal voltages
% given the admittance matrix Y and current vector I
% Y is the admittance matrix
% I is the current vector
```

# Introduction To Matlab Application To Electrical Engineering

**Wenbin Ji**



## **Introduction To Matlab Application To Electrical Engineering:**

## **Introduction To Matlab Application To Electrical Engineering** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has be more evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Introduction To Matlab Application To Electrical Engineering**, a literary masterpiece that delves deep in to the significance of words and their effect on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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