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NPTEL

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Courses » Computer Aided Power System Analysis

Announcements **Course** Ask a Question Progress FAQ

Unit 13 - Week 12

Register for
Certification exam

Course outline

How to access
the portal

Week 1

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

- Fault Analysis (Contd.....)

- Fault Analysis (Contd.....)

- Fault Analysis (Contd.....)

Assignment 12

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.

Due on 2019-04-24, 23:59 IST.1) The Y_{II} matrix for $Y_g y4$ transformer is

4 points

$$\frac{y}{3} \begin{bmatrix} -1 & 1 & 2 \\ 2 & -1 & 1 \\ 1 & 2 & -1 \end{bmatrix}$$

$$y \begin{bmatrix} 1 & 1 & -2 \\ -2 & 1 & 1 \\ 1 & -2 & 1 \end{bmatrix}$$

$$\frac{y}{3} \begin{bmatrix} 1 & 1 & 2 \\ 2 & 1 & 1 \\ 1 & 2 & 1 \end{bmatrix}$$

$$\frac{y}{3} \begin{bmatrix} 1 & 1 & -2 \\ -2 & 1 & 1 \\ 1 & -2 & 1 \end{bmatrix}$$

No, the answer is incorrect.**Score: 0****Accepted Answers:**

$$\frac{y}{3} \begin{bmatrix} 1 & 1 & -2 \\ -2 & 1 & 1 \\ 1 & -2 & 1 \end{bmatrix}$$

2) The Y_{IV} matrix for $Y_g y4$ transformer is

4 points

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$$\frac{y}{3} \begin{bmatrix} 2 & -1 & -1 \\ -1 & 2 & -1 \\ -1 & -1 & 2 \end{bmatrix}$$

$$y \begin{bmatrix} -2 & 1 & 1 \\ 1 & -2 & 1 \\ 1 & 1 & -2 \end{bmatrix}$$

$$\frac{y}{3} \begin{bmatrix} -1 & 1 & 2 \\ 2 & -1 & 1 \\ 1 & 2 & -1 \end{bmatrix}$$

No, the answer is incorrect.

Score: 0

Accepted Answers:

$$\frac{y}{3} \begin{bmatrix} 2 & -1 & -1 \\ -1 & 2 & -1 \\ -1 & -1 & 2 \end{bmatrix}$$

3) The Y_{II} matrix for $Y_g y_g$ 4 transformer is

2 points

$$y \begin{bmatrix} -1 & 0 & 0 \\ 0 & -1 & 0 \\ 0 & 0 & -1 \end{bmatrix}$$

$$y \begin{bmatrix} 0 & 0 & 1 \\ 1 & 0 & 0 \\ 0 & 1 & 0 \end{bmatrix}$$

$$y \begin{bmatrix} 0 & 0 & -1 \\ -1 & 0 & 0 \\ 0 & -1 & 0 \end{bmatrix}$$

$$y \begin{bmatrix} 1 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

No, the answer is incorrect.

Score: 0

Accepted Answers:

$$y \begin{bmatrix} 0 & 0 & -1 \\ -1 & 0 & 0 \\ 0 & -1 & 0 \end{bmatrix}$$

Previous Page

End

