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NPTEL

Courses » **Computer Aided Power System Analysis**

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Unit 6 - Week 5

Course outline

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Week 5

- ● FDLF (Contd.)

- ● FDLF (Contd..)

- ● AC- DC Load Flow

- ● AC- DC Load Flow..

- ● AC- DC Load Flow (Contd.)

- ○ Quiz : Assignment 5

Week 6

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Assignment 5

The due date for submitting this assignment has passed.
As per our records you have not submitted this **Due on 2019-03-06, 23:59 IST.**
assignment.

Assignment 5

1) **Note: For solving this assignment, a computer program for implementing FDLF load flow program needs to be developed.**

Consider the bus data and line data of the small 5 bus example system given in lecture 10. In this system, the real power load at bus 4 is changed to 150 MW (instead of 115 MW as given in the example). All other data of this system are same as given in lecture 10. Assume that there is no reactive power limit on any of the generators. Assume ϵ (convergence threshold) = $1\,e^{-12}$. Upon computing the power flow program using FDLF method, the following quantities are obtained (after convergence):

1)   Number of iterations for convergence is:

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Range) 18,20

2 points

2) The element $B'\left(3,3\right)$ is:

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Range) 10.70,10.74

2 points

VIDEOS

Interaction Session

(Type: Range) 15.54,15.56

2 points

4) Magnitude of bus 4 voltage (in pu) is :

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Range) 0.88,0.90

2 points

5) Magnitude of bus 5 voltage (in pu) is :

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Range) 0.92,0.94

2 points

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