reviewer4@nptel.iitm.ac.in ▼ Courses » Computer Aided Power System Analysis Announcements Course Ask a Question **Progress** FAQ Unit 4 - Week 3 Register for **Certification exam Assignment 3** The due date for submitting this assignment has passed. Course Due on 2019-02-20, 23:59 IST. As per our records you have not submitted this outline assignment. How to access 1) Note: For solving this assignment, a computer program for implementing Newton-Raphson the portal (Polar) 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. Week 1 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 Week 2 that there is no reactive power limit on any of the generators. Assume ϵ (convergence threshold) = 1.0e-12. Upon computing the power flow program using Newton-Raphson Week 3 (Polar) method, the following quantities are obtained (after convergence): Basics of 1) Active Power Injected at bus 1 is: Newton Raphson Numerical Method No, the answer is incorrect. Newton -Raphson Load Score: 0 Flow (NRLF) in **Accepted Answers:** Polar (Type: Range) 94.00,97.00 Co-Ordinate 2 points NRLF in polar co-ordinate 2) The element **J1**(2,2) is: (contd.) NRLF in polar co-ordinate (contd..) No. the answer is incorrect. NRLF (Polar) Score: 0 Algorithm and **Accepted Answers:** Example (Type: Range) 18.0,18.1 Quiz: 2 points Assignment 3 3) The element **J4**(2,2) is: Week 4 © 2014 NPTEL - Privacy & Terms - Honor Code - FAQs -In association with A project of Technology Enhanced Learning

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