reviewer4@nptel.iitm.ac.in ▼ Courses » Computer Aided Power System Analysis **Announcements** Course Ask a Question **Progress** FAQ Unit 10 - Week 9 Register for **Assignment 9 Certification exam** The due date for submitting this assignment has passed. Course Due on 2019-04-03, 23:59 IST. As per our records you have not submitted this outline assignment. 1) A power system engineer made following statements regarding Chi-square distribution. How to access the portal Which of the given options is true regarding these statements? 1. For a given value of degree of freedom (k), as α decreases, the value of $C(k,\alpha)$ increases. Week 1 2. For a given value of α , as degree of freedom increases, the value of $C(k,\alpha)$ increases. Week 2 Only statement 1) is correct Week 3 Only statement 2) is correct Both statements 1) and 2) are correct. Week 4 Both statements 1) and 2) are wrong Week 5 No. the answer is incorrect. Score: 0 Week 6 **Accepted Answers:** Week 7 Both statements 1) and 2) are correct. 2) A power system engineer made following statements regarding state estimation. Which of 2 points Week 8 the given options is true regarding these statements? Week 9 Statement A: The estimated errors are independent to each other. Statement B: Any estimated state is dependent only one particular measurement. WLS Examples Error Analysis Both statements A and B are correct Error Analysis Both statements A and B are wrong (cont.) Only statement B is correct Bad Data

> No, the answer is incorrect. Score: 0

Accepted Answers:

Both statements A and B are wrong

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Only statement A is correct

A project of

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Quiz :

Power system

state estimation

Assignment 9



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VIDEOS	Both statements A and B are correct
Interaction	Both statements A and B are wrong
Session	Only statement B is correct
	Only statement A is correct
	-
	No, the answer is incorrect. Score: 0
	Accepted Answers:
	Only statement A is correct
	4) A power system engineer made following observations regarding state estimation. Which <i>2 points</i> of the given options is true regarding these observations? Observation A: The measurement errors are assumed to be independent from each other.
	Observation B: The error co-variance matrix is a diagonal matrix.
	Observations A and B are independent, there is no relation between these observations.
	Observation B follows from observation A
	Observation A follows from observation B
	Both observations A and B are wrong
	No, the answer is incorrect.
	Score: 0
	Accepted Answers: Observation B follows from observation A
	5) In a state estimation problem, errors are assumed to Gaussian with zero mean. <i>2 points</i> Accordingly, a power system engineer made following observations. Which of the given options is true regarding these observations?
	Observation A: Expected values of the estimated errors are zero. Observation B: Expected values of the estimated measurements are equal to the corresponding
	obtained measured values.
	Observations A and B are independent, there is no relation between these observations.
	Observation A follows from observation B
	Observation B follows from observation A
	Both observations A and B are wrong
	No, the answer is incorrect.
	Score: 0
	Accepted Answers: Observation B follows from observation A
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