Assignment 9

The due date for submitting this assignment has passed. As per our records you have not submitted this assignment. Due on 2019-04-03, 23:59 IST.

1) A power system engineer made following statements regarding Chi-square distribution. Which of the given options is true regarding these statements?

1. For a given value of degree of freedom \(k\), as \(\alpha\) decreases, the value of \(C(k, \alpha)\) increases.
2. For a given value of \(\alpha\), as degree of freedom increases, the value of \(C(k, \alpha)\) increases.

- Only statement 1) is correct
- Only statement 2) is correct
- Both statements 1) and 2) are correct.
- Both statements 1) and 2) are wrong

No, the answer is incorrect.
Score: 0

Accepted Answers:
Both statements 1) and 2) are correct.

2) A power system engineer made following statements regarding state estimation. Which of the given options is true regarding these statements?

Statement A: The estimated errors are independent to each other.
Statement B: Any estimated state is dependent only one particular measurement.

- Both statements A and B are correct
- Both statements A and B are wrong
- Only statement B is correct
- Only statement A is correct

No, the answer is incorrect.
Score: 0

Accepted Answers:
Both statements A and B are wrong
4) A power system engineer made following observations regarding state estimation. Which 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.

- Observation 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. 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