P & S Simplified

Random Variables:

- 1. Probability
- 2. Axioms Of Probability
- 3. Problems on Probability
- 4. Conditional Probability
- 5. <u>Baye's Theorem</u>
- 6. Problems On Baye's Theorem
- 7. Random Variables And Probability Distributions
- 8. Problems On Probability Distributions
- 9. Probability Mass Function
- 10. Problems On Probability Mass Function
- 11. Probability Density Function
- 12. Problems On Probability Density Function
- 13. Mathematical Expectation

Probability Distributions:

- 1. Binomial Distribution (Bernoulli Trial)
- 2. Mean, Variance and Mode of Binomial Distribution
- 3. Expected Frequency of Binomial Distribution
- 4. Problems on Binomial Distribution
- 5. Poisson Distribution
- 6. Mean, Variance, Standard Deviation and Mode of the Poisson Distribution
- 7. Expected Frequency of Poisson Distribution

- 8. Problems on Poisson Distribution
- 9. Normal Distribution
- 10. Mean and Variance of Normal Distribution
- 11. Problems of Normal Distribution

Correlations And Regressions:

- 1. Correlation Coefficient
- 2. Rank Correlation
- 3. Rank Correlation for Equal or Repeated Ranks
- 4. Problems on Correlation Coefficient
- 5. Regression Lines 1
- 6. Regression Lines 2
- 7. Regression Lines 3
- 8. Problems on Regression Lines

Test Of Hypothesis - 1:

- 1. Sampling Distribution
- 2. Problems on Sampling Distribution
- 3. Testing of Hypothesis for Large Samples
- 4. Test of Hypothesis for Single Mean
- 5. <u>Test of Hypothesis for Difference of Means</u>
- 6. <u>Test of Hypothesis for Single Proportion</u>
- 7. Test of Hypothesis for Difference of Proportions
- 8. Problems on Test of Hypothesis for Single Mean and Difference of Means
- 9. <u>Problems on Test of Hypothesis for Single Proportion and Difference of Proportion</u>

Test Of Hypothesis - 2:

- 1. <u>Test of Hypothesis for Small Samples</u>
- 2. <u>t Distribution for Single Mean</u>
- 3. t Distribution for Difference Of Means
- 4. F Distribution
- 5. Chi Square Distribution I
- 6. Chi Square Distribution II
- 7. Chi Square Distribution III
- 8. Problems on t Distribution for Single Mean and Difference of Means
- 9. Problems on F Distribution
- 10. Problems on Chi-Square Distribution

Miscellaneous:

- 1. Random Variables Definitions & Terminology
- 2. Probability Distribution Definitions & Terminology
- 3. Correlation and Regression Definitions & Terminology
- 4. Test of Hypothesis I Definitions & Terminology
- 5. Test of Hypothesis II Definitions & Terminology
- 6. Random Variables Discussion of Tutorial Question Bank
- 7. Probability Distribution Discussion of Tutorial Question Bank
- 8. Correlation and Regression Discussion of Tutorial Question Bank
- 9. Test of Hypothesis I Discussion of Tutorial Question Bank
- 10. Test of Hypothesis II Discussion of Tutorial Question Bank



Extracted by Abhiram Mangipudi



Edited and Posted by Yuvaraj Vasam

Please note that the links are clickable and will direct you to the corresponding YouTube videos.