

Introduction to Statistics

Percentiles and Quartiles – Measures of Central Tendency- Measures of Variability –
Grouped data and the Histogram – Skewness and Kurtosis – Random Variables

Sampling and Methods

Sampling Distributions- Confidence intervals – Using statistics in Sampling Methods -
Nonprobability sampling- Stratified Random Sampling – Cluster Sampling – Systematic
Sampling

Probability Distribution Function

Binomial, Poisson- Normal T test- Chi-square tests- The sign test – The runs test – The
Mann Whitney U test – The Wilcoxon Signed- Rank Test – The Kurskal Wallis Test – The
Spearman Rank Correlation Coefficient- Regression- Multiple regression

Statistical Inference


The concepts of hypothesis testing – Computing the p-Value – Method of least squares-
Analysis of Variance – Simple Linear Regression Model - Multiple Regression Models -
Type I and Type II error - Testing difference of means and proportions of two populations

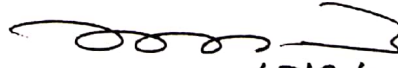
Text Books:

Amir D.Aczel, Business Statistics, Tata Mc Graw Hill Edition, 2002

Reference Books:

David R. Anderson, Statistics for Business and Economics, South-Western Publishing, 13th
Edition


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