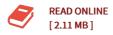# Introduction to Statistics for Forensic Scientists

By Lucy, David

Wiley, 2005. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Preface.List of Figures.List of Tables.1. A short history of statistics in the law.1.1 History.1.2 Some recent uses of statistics in forensic science.1.3 What is probability'.2. Data types, location and dispersion.2.1 Types of data.2.2 Populations and samples.2.3 Distributions.2.4 Location.2.5 Dispersion.2.6 Hierarchies of variation.3. Probability.3.1 Aleatory probability.3.2 Binomial probability.3.3 Poisson probability.3.4 Empirical probability.4. The normal distribution.4.1 The normal distribution.4.2 Standard deviation and standard error of the mean.4.3 Percentage points of the normal distribution.4.5 t-testing between two independent samples.4.6 Testing between paired observations.4.7 Confidence, significance and p-values.5. Measures of nominal and ordinal association.5.1 Association between discrete variables.5.2 X2 test for a 2 x 2 table5.3 Yules Q.5.4 X2 tests for greater than 2 x 2 tables.5.5 02 and crammers V2.5.6 The limitations of X2 testing.5.7 Interpretation and conclusions.6. Correlation.6.1 Significance tests for correlation coefficients.6.2 Correlation coefficients for non-linear data.6.3 The coefficient of determination.6.4 Partial correlation.6.5 Partial correlation controlling for two of more covariates.7. Regression and calibration.7.1 Linear models.7.2 Calculation of a linear regression model.7.3 Testing 'goodness of fit'.7.4 Testing coefficientsa andb.7.5 Residuals.7.6 Calibration.7.7 Points to remember.8. Evidence evaluation.8.1 Verbal statements of evidential value.8.2 Evidence types.8.3 The value...

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