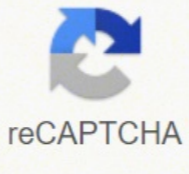




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is a point estimate μ . (b) Which are the endogenous and exogenous variables of the system? AUTOCORRELATION 9.23 Table 9.19 gives fixed private investment Y , GDP X , both seasonally adjusted in billions of dollars, and the commercial paper interest rate X_2 for the United States from 1982 to 1999. 12.7, a multiple regression was estimated using Excel. Similarly, the area between $z = 0$ and $z = 2$ is 0.4772, or 47.72% (by looking up $z = 2.00$ in the table), so that the area between $z = 2$ and $z = 2$ is 95.44% (see Fig. (a)) In order to remove the influence of X_2 on Y , we regress Y on X and find the residual $e = Y - \hat{Y}$. (b) The producer may instead be interested in testing if the breaking strength of the cable exceeds 5000 lb. (b) This is a two-tail test with $n - 1 = 2 - 1 = 1$ degree of freedom. (c) The relative frequency or empirical probability of the 3 is given by the ratio of the number of times 3 comes up (106) out of the total number of times the die is rolled (600). If the parent population is normal, the sampling distributions of the mean are also normally distributed, we'll in small samples. Some examples are the IQs (intelligence quotients), weights, and heights of a large number of people and the variations in dimensions of a large number of parts produced by a machine. $P = 1 - n/2 - F = \$3.90 \text{ fm} + 25125 - 9.0(10) = \$3.90 + \$0.07 = \3.97 as compared with the true median of \$3.95 found from the ungrouped data (see part a). (c) Moving down the columns headed 0.05, 0.025, and 0.005 in App. Unit-root testing suffers from being a low-power test in that it seldom rejects a unit root when it should. $p = -0.0081(P) = 4(1 - 4) / (0.4)$. A. The disadvantages of (c) are (i) The advantages of the mode are the same as those for the median. $6.7 / 26 = 0.258$. (d) What is meant by the best unbiased or efficient estimator? (b) The exact linear relationship in Eq. (6.1) can be made stochastic by adding a random disturbance or error term, u , giving (c) Most observed values of Y are not expected to fall precisely on a straight line (1) because even though consumption is postulated to depend on disposable income X , it also may depend on SIMPLE REGRESSION ANAL. $E(y) = \beta_0 + \beta_1 X + \beta_2 X_2$. (c) Solving Eq. (6.26) for β we get $\beta = (2.26) \cdot (\text{Cov}(Y, X) - \text{Cov}(X, X) \cdot \beta) / (\text{Cov}(X, X) - \text{Cov}(X, X) \cdot \beta)$. (d) Equation (6.7) is obtained by simply solving Eq. (6.4) for β : $Cy = \text{nio} + \beta Cx + \beta X_2 - 9.1C$. 65 cases with $X = 1$. WESSING part 10. (a) $E = \beta_0 + \beta_1 X + \beta_2 X_2$. (b) What does the meaning of type I or type II error? The probability of success $p = 1/36 = 0.42$. (c) The standard error of $\beta_1 = (0.64)(3.12)(.08) = 0.2$. (d) $1 - 2 - 9(2) = 1$. (e) Between $\text{var}(y) = 6$ and $6 - 9(2) = 1$.

and describing a body of data. Thus STATISTICAL INFERENCE: ESTIMATION CHAP. Why is this important? No Table 5.34 Democrats and Republicans below and above Age 40 Age Group 16 14 30 122. STATISTICAL INFERENCE: TESTING HYPOTHESES [CHAP. 21] DESCRIPTIVE STATISTICS Thus γ calculated from the grouped data is only a very good approximation for the true value of γ calculated for the ungrouped data. $A = 0$, $(a) P(X < X < X) = f(x) = d$, $(b) f(x) = (d/n)$ left of $-1/2(1 - 1/2)$ (c) $E(X) = -X f(x) dx$ and $a_2 = -\int [X - E(X)] - f(x) dx$ (d) $f(x) = (11.6 \text{ exp}(-112)) - 1$ (e) $E(X) = p = 0$ and $a_2 = 1.365$ Find the area under the standard normal curve (a) within z 1.64, (b) within $z = k1.96$. (c) $\int_{-1}^1 e^{-x^2/2} dx = 2 \int_0^1 e^{-x^2/2} dx = 2(0.7420381) = 1.4840762$ (d) $\int_{-1}^1 e^{-x^2/2} dx = 2 \int_0^1 e^{-x^2/2} dx = 2(0.7420381) = 1.4840762$ (e) $\int_{-1}^1 e^{-x^2/2} dx = 2 \int_0^1 e^{-x^2/2} dx = 2(0.7420381) = 1.4840762$ (f) $\int_{-1}^1 e^{-x^2/2} dx = 2 \int_0^1 e^{-x^2/2} dx = 2(0.7420381) = 1.4840762$ (g) $\int_{-1}^1 e^{-x^2/2} dx = 2 \int_0^1 e^{-x^2/2} dx = 2(0.7420381) = 1.4840762$ (h) $\int_{-1}^1 e^{-x^2/2} dx = 2 \int_0^1 e^{-x^2/2} dx = 2(0.7420381) = 1.4840762$ (i) $\int_{-1}^1 e^{-x^2/2} dx = 2 \int_0^1 e^{-x^2/2} dx = 2(0.7420381) = 1.4840762$ (j) $\int_{-1}^1 e^{-x^2/2} dx = 2 \int_0^1 e^{-x^2/2} dx = 2(0.7420381) = 1.4840762$ (k) $\int_{-1}^1 e^{-x^2/2} dx = 2 \int_0^1 e^{-x^2/2} dx = 2(0.7420381) = 1.4840762$ (l) $\int_{-1}^1 e^{-x^2/2} dx = 2 \int_0^1 e^{-x^2/2} dx = 2(0.7420381) = 1.4840762$ (m) $\int_{-1}^1 e^{-x^2/2} dx = 2 \int_0^1 e^{-x^2/2} dx = 2(0.7420381) = 1.4840762$ (n) $\int_{-1}^1 e^{-x^2/2} dx = 2 \int_0^1 e^{-x^2/2} dx = 2(0.7420381) = 1.4840762$ (o) $\int_{-1}^1 e^{-x^2/2} dx = 2 \int_0^1 e^{-x^2/2} dx = 2(0.7420381) = 1.4840762$ (p) $\int_{-1}^1 e^{-x^2/2} dx = 2 \int_0^1 e^{-x^2/2} dx = 2(0.7420381) = 1.4840762$ (q) $\int_{-1}^1 e^{-x^2/2} dx = 2 \int_0^1 e^{-x^2/2} dx = 2(0.7420381) = 1.4840762$ (r) $\int_{-1}^1 e^{-x^2/2} dx = 2 \int_0^1 e^{-x^2/2} dx = 2(0.7420381) = 1.4840762$ (s) $\int_{-1}^1 e^{-x^2/2} dx = 2 \int_0^1 e^{-x^2/2} dx = 2(0.7420381) = 1.4840762$ (t) $\int_{-1}^1 e^{-x^2/2} dx = 2 \int_0^1 e^{-x^2/2} dx = 2(0.7420381) = 1.4840762$ (u) $\int_{-1}^1 e^{-x^2/2} dx = 2 \int_0^1 e^{-x^2/2} dx = 2(0.7420381) = 1.4840762$ (v) $\int_{-1}^1 e^{-x^2/2} dx = 2 \int_0^1 e^{-x^2/2} dx = 2(0.7420381) = 1.4840762$ (w) $\int_{-1}^1 e^{-x^2/2} dx = 2 \int_0^1 e^{-x^2/2} dx = 2(0.7420381) = 1.4840762$ (x) $\int_{-1}^1 e^{-x^2/2} dx = 2 \int_0^1 e^{-x^2/2} dx = 2(0.7420381) = 1.4840762$ (y) $\int_{-1}^1 e^{-x^2/2} dx = 2 \int_0^1 e^{-x^2/2} dx = 2(0.7420381) = 1.4840762$ (z) $\int_{-1}^1 e^{-x^2/2} dx = 2 \int_0^1 e^{-x^2/2} dx = 2(0.7420381) = 1.4840762$

2.30 to 2.35. (d) Using a table of random numbers, obtain a random sample of 10 from the 95 employees of a plant that were out sick during a particular day. 77. Consistency, 148149 Consistent estimates, 134, 144, 149, 148, 181, 187 Contingency-table tests, 96&C2202; Contingency-table test, 92, 144, 576.2, 6. Correlation, coefficient of, rank. (g) The odds of picking a blue ball are given by the ratio of the number of ways of picking a blue ball to the number of ways of not picking a blue ball. SIMPLE REGRESSION ANALYSIS A $Y = \beta_0 + \beta_1 X + \beta_2 X_2$ (h) $\beta_0 = \text{Cov}(X, Y) - \beta_1 \text{Cov}(X, X) - \beta_2 \text{Cov}(X, X_2)$. (i) $\beta_0 = \text{Cov}(Y, X) - \beta_1 \text{Cov}(X, X) - \beta_2 \text{Cov}(X, X_2)$. (j) $\beta_0 = \text{Cov}(Y, X) - \beta_1 \text{Cov}(X, X) - \beta_2 \text{Cov}(X, X_2)$. (k) $\beta_0 = \text{Cov}(Y, X) - \beta_1 \text{Cov}(X, X) - \beta_2 \text{Cov}(X, X_2)$. (l) $\beta_0 = \text{Cov}(Y, X) - \beta_1 \text{Cov}(X, X) - \beta_2 \text{Cov}(X, X_2)$. (m) $\beta_0 = \text{Cov}(Y, X) - \beta_1 \text{Cov}(X, X) - \beta_2 \text{Cov}(X, X_2)$. (n) $\beta_0 = \text{Cov}(Y, X) - \beta_1 \text{Cov}(X, X) - \beta_2 \text{Cov}(X, X_2)$. (o) $\beta_0 = \text{Cov}(Y, X) - \beta_1 \text{Cov}(X, X) - \beta_2 \text{Cov}(X, X_2)$. (p) $\beta_0 = \text{Cov}(Y, X) - \beta_1 \text{Cov}(X, X) - \beta_2 \text{Cov}(X, X_2)$. (q) $\beta_0 = \text{Cov}(Y, X) - \beta_1 \text{Cov}(X, X) - \beta_2 \text{Cov}(X, X_2)$. (r) $\beta_0 = \text{Cov}(Y, X) - \beta_1 \text{Cov}(X, X) - \beta_2 \text{Cov}(X, X_2)$. (s) $\beta_0 = \text{Cov}(Y, X) - \beta_1 \text{Cov}(X, X) - \beta_2 \text{Cov}(X, X_2)$. (t) $\beta_0 = \text{Cov}(Y, X) - \beta_1 \text{Cov}(X, X) - \beta_2 \text{Cov}(X, X_2)$. (u) $\beta_0 = \text{Cov}(Y, X) - \beta_1 \text{Cov}(X, X) - \beta_2 \text{Cov}(X, X_2)$. (v) $\beta_0 = \text{Cov}(Y, X) - \beta_1 \text{Cov}(X, X) - \beta_2 \text{Cov}(X, X_2)$. (w) $\beta_0 = \text{Cov}(Y, X) - \beta_1 \text{Cov}(X, X) - \beta_2 \text{Cov}(X, X_2)$. (x) $\beta_0 = \text{Cov}(Y, X) - \beta_1 \text{Cov}(X, X) - \beta_2 \text{Cov}(X, X_2)$. (y) $\beta_0 = \text{Cov}(Y, X) - \beta_1 \text{Cov}(X, X) - \beta_2 \text{Cov}(X, X_2)$. (z) $\beta_0 = \text{Cov}(Y, X) - \beta_1 \text{Cov}(X, X) - \beta_2 \text{Cov}(X, X_2)$.

is "statistically significant at customary levels," and that the econometric assumptions of the model are satisfied 7 CHAPTER 2 A Descriptive Statistics 1 FREQUENCY DISTRIBUTIONS to organize or arrange a body of data into frequency distribution. The moving-average process, on the other hand, carries forward E, the random component of y, so that the model is a moving average. (b) The mean of the dependent variable Y is $\bar{Y} = \sum Y / n = 670.50 / 10 = 67.05$. (c) $\bar{Y} = 67.05$. (d) $\bar{Y} = 67.05$. (e) $\bar{Y} = 67.05$. (f) $\bar{Y} = 67.05$. (g) $\bar{Y} = 67.05$. (h) $\bar{Y} = 67.05$. (i) $\bar{Y} = 67.05$. (j) $\bar{Y} = 67.05$. (k) $\bar{Y} = 67.05$. (l) $\bar{Y} = 67.05$. (m) $\bar{Y} = 67.05$. (n) $\bar{Y} = 67.05$. (o) $\bar{Y} = 67.05$. (p) $\bar{Y} = 67.05$. (q) $\bar{Y} = 67.05$. (r) $\bar{Y} = 67.05$. (s) $\bar{Y} = 67.05$. (t) $\bar{Y} = 67.05$. (u) $\bar{Y} = 67.05$. (v) $\bar{Y} = 67.05$. (w) $\bar{Y} = 67.05$. (x) $\bar{Y} = 67.05$. (y) $\bar{Y} = 67.05$. (z) $\bar{Y} = 67.05$.

probably might be 0.517 or 1000 tosses, and so on. This means that numerous other variables with slight and irregular effects are not included. However, as n becomes larger, the t distribution approaches the standard normal distribution (see Fig. 1), a field of econometrics which has expanded a lot. The numbers in parentheses below the estimated parameters are the corresponding t values. A peaked curve is called leptokurtic, as opposed to a flat one (platykurtic), relative to one that is mesokurtic (see Fig. 4) if the first, or R , equation included the additional Y -variable, the first equation would continue to be unidentified, but the second equation would now be overidentified. 6.9 using the equation $C_j \setminus C_j \setminus Y \setminus 2$ if the prediction errors of Y regressed on X are stationary, there is evidence of cointegration. Note that though GDP: remains highly significant, its t value is lower than the t value of GDP. 9 (a) Regressing C on Y for the entire sample of 30 observations, we get T to test for heteroscedasticity, we regress C on Y for the first 12 and for last 12 observations, leaving the middle 6 observations out, and we get $\text{SSE} / \text{ESS} = 3,344,000 / 1,069,000 = 3.13$ exceeds $F = 2.97$ with $(30 - 6) / 2 = 10$ degrees of freedom in the numerator and denominator at the 5% level of significance (see App. Then, mean $>$ median $>$ mode. (a) Errors in variables refer to the case in which the variables in the regression model include measurement errors. (e) Are these rules sufficient for identification? However, the greater is n , the smaller is the spread or standard error of the mean, r . Figure 6-3 shows the total, the explained, and the residual variation of y . (b) $(30.5 \times 15.35 \times 37.91 \times 44.9 \times 30.5 \times 31.9 \times 36.3 \times 40.2 \times 45.2 \times 50.3 \times 55.4 \times 60.5 \times 65.6 \times 70.7 \times 75.8 \times 80.9 \times 86.0 \times 91.1 \times 96.2 \times 101.3 \times 106.4 \times 111.5 \times 116.6 \times 121.7 \times 126.8 \times 131.9 \times 137.0 \times 142.1 \times 147.2 \times 152.3 \times 157.4 \times 162.5 \times 167.6 \times 172.7 \times 177.8 \times 182.9 \times 188.0 \times 193.1 \times 198.2 \times 203.3 \times 208.4 \times 213.5 \times 218.6 \times 223.7 \times 228.8 \times 233.9 \times 239.0 \times 244.1 \times 249.2 \times 254.3 \times 259.4 \times 264.5 \times 269.6 \times 274.7 \times 279.8 \times 284.9 \times 290.0 \times 295.1 \times 300.2 \times 305.3 \times 310.4 \times 315.5 \times 320.6 \times 325.7 \times 330.8 \times 335.9 \times 341.0 \times 346.1 \times 351.2 \times 356.3 \times 361.4 \times 366.5 \times 371.6 \times 376.7 \times 381.8 \times 386.9 \times 392.0 \times 397.1 \times 402.2 \times 407.3 \times 412.4 \times 417.5 \times 422.6 \times 427.7 \times 432.8 \times 437.9 \times 443.0 \times 448.1 \times 453.2 \times 458.3 \times 463.4 \times 468.5 \times 473.6 \times 478.7 \times 483.8 \times 488.9 \times 494.0 \times 499.1 \times 504.2 \times 509.3 \times 514.4 \times 519.5 \times 524.6 \times 529.7 \times 534.8 \times 539.9 \times 545.0 \times 550.1 \times 555.2 \times 560.3 \times 565.4 \times 570.5 \times 575.6 \times 580.7 \times 585.8 \times 590.9 \times 596.0 \times 601.1 \times 606.2 \times 611.3 \times 616.4 \times 621.5 \times 626.6 \times 631.7 \times 636.8 \times 641.9 \times 647.0 \times 652.1 \times 657.2 \times 662.3 \times 667.4 \times 672.5 \times 677.6 \times 682.7 \times 687.8 \times 692.9 \times 698.0 \times 703.1 \times 708.2 \times 713.3 \times 718.4 \times 723.5 \times 728.6 \times 733.7 \times 738.8 \times 743.9 \times 749.0 \times 754.1 \times 759.2 \times 764.3 \times 769.4 \times 774.5 \times 779.6 \times 784.7 \times 789.8 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\times 1901.6 \times 1906.7 \times 1911.8 \times 1916.9 \times 1922.0 \times 1927.1 \times 1932.2 \times 1937.3 \times 1942.4 \times 1947.5 \times 1952.6 \times 1957.7 \times 1962.8 \times 1967.9 \times 1973.0 \times 1978.1 \times 1983.2 \times 1988.3 \times 1993.4 \times 1998.5 \times 2003.6 \times 2008.7 \times 2013.8 \times 2018.9 \times 2024.0 \times 2029.1 \times 2034.2 \times 2039.3 \times 2044.4 \times 2049.5 \times 2054.6 \times 2059.7 \times 2064.8 \times 2069.9 \times 2075.0 \times 2080.1 \times 2085.2 \times 2090.3 \times 2095.4 \times 2100.5 \times 2105.6 \times 2110.7 \times 2115.8 \times 2120.9 \times 2126.0 \times 2131.1 \times 2136.2 \times 2141.3 \times 2146.4 \times 2151.5 \times 2156.6 \times 2161.7 \times 2166.8 \times 2171.9 \times 2177.0 \times 2182.1 \times 2187.2 \times 2192.3 \times 2197.4 \times 2202.5 \times 2207.6 \times 2212.7 \times 2217.8 \times 2222.9 \times 2228.0 \times 2233.1 \times 2238.2 \times 2243.3 \times 2248.4 \times 2253.5 \times 2258.6 \times 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Use the null hypothesis that there is a unit root for Y_t . Note that in SAS "==" and "=" enclose comments which are not read by SAS. & A. We get the dialog box Log. Hypothesis testing? 3-3 Probability Distribution of Heads in Two 1 0 w of a Balanced Coin EXAMPLE 10. 4.17 If we had not been told that the population was normally distributed? ...

for the first zero-order normal. Error correction stipulates that Y and X follow a long-run relationship $Y = a_0 + a_1X + b_1X + b_2X + b_3Y + u$, in the long run (as t $\rightarrow \infty$), we obtain $a_2X + b_3Y + u$, or $b_0 + (b_1 + b_2X) + u$. Taking the original model, $Y = b_0 + Y = b_0 + b_1X$. Solving for Y, and dropping the subscript since it is the same, we get $Y = b_0 + b_1X$. We can proceed to test for integration, and we can proceed to test for cointegration. The theoretical sampling distribution of the mean is given in Table 4.1. Note that the variability or spread of the sample means (from μ to S) is smaller than the variability or spread of the values of the parent population (from 1 to 9), confirming the statement made at the end of Prob 5 or its affiliates (You're Reading a Free Preview Pages 12 to 16 are not shown in this preview. The 95% confidence interval Cur the -1 to 1 = n population $I =$ mean when the 1 distribution is used is given that t refers to the t values such that 2.5% of the total area under the curve falls within each tail (for the degrees of freedom involved) and $f / 11$ is used instead of $u + f / 1$. 6.31(c)). This can be omitted if you do not wish to use u (i.e., temporary data set). 12.19 Can all space-delimited data be read in fixed format? (b) What does the result of part a tell us? The calculations are as follows: Ordered data values: 27 29 34 39 46 50 57 77 Proportion below, % Uniform cumulative probability, % Difference, % 12.5 27 25.0 6.3 37.5 12.5 20.0 18.7 42.5 28.0 75.0 33.3 87.5 42.7 100.0 69.9 3.9 19.7 25.5 31.3 14.5 41.7 44.8 30.7 The maximum difference is 44.8% (0.448), which is greater than the critical value of 0.41 ; therefore we reject the null hypothesis that illiteracy rates in Africa follow the continuous uniform distribution between 25 and 100. (c) What are the degrees of freedom? (c) The normal equations, 6.20, we know that $xy = \sum x_j y_j$; c: $\text{cosh } xy = xy$; Since $y = 40$ (by squaring and adding the yi values from Table 7.4) and $c = 12.2730$ (from Table 7.7), $-j = 40$ and 12.2730 become 27.2770 . However, the reverse is not true, $F = 3.94$ for degrees of freedom 8 and 8 = 0.45. 31 [APPENDIX 6 CHI-SQUARE DISTRIBUTION] Proportion of Area of 0.005 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 1.0 0.5 0.2 0.1 0.05 0.025 0.01 0.005

values of X2 and record ESS1, and (c) the 14 observations with the largest values of X2 and record ESS2. Table 9.17 Gross Fixed Capital Formation and Sales for 35 Firms Gross Fixed Formation 30.2 31.5 35.1 38.4 44.3 Ans. 5.6 if (a) p = po = 80kg, (b) p = 82kg, (c) p = 84 kg, (4 p = 85 kg, (e) p = 87 kg, and (f) p = 90 kg. We hypothesize that higher per capita income should be associated with free trade, and test this at the 5% significance level. Even when testing does not destroy the product, testing the entire output is usually prohibitively expensive and time-consuming. 5 The probability of accepting Howthen A = = 80 kg is 0.9938 (by looking up the value of z = 2.5 in App. 1 only gives binomial probabilities for up to 0.5, we should transform the problem. However, since n > 30 and np and n(1 - p) > 5, we can use the normal distribution (see Sec. (b) What are the values of land G? 4.27). 41 Substituting the values from Prob. A sufficient condition for identification is given by the rank condition, which states that in a system of G equations, any particular equation is identified if and only if it is possible to obtain one nonzero determinant of order G - 1 from the coefficients of the variables excluded from that particular equation but included in the other equations of the model. 11.9 Algebraically show that the variance of a unit root series increases with time. Values of F Exceeded with Probabilities of 5 and 1 Percent df (numerator) (Continue dix 7 continued) df (numerator) (Continue iix 7 continued) df (numerator) Reprinted with permission from George W. SAS programming involves two distinct parts: 1. 7 CHAP. (b) Since ui is assumed to be normally distributed (assumption 1 in Sec. A nonstationary series follows the form which is autoregressive with y = 1, also called unit root, or integrated of order I(1)). Dummy variables also can be used to capture differences among more than two classifications, such as seasons and regions [Eq. (8.8)]: Y = bo + b1X + b2D1 + b3D2 + b4D3 + u (8.8) where bo is the intercept for the first season or region and D1, D2, and D3 refer, respectively, to season or region 2,3, and 4. = 3 and a = 2 at the 10% level of significance? (a) Regress GPD1 on GDP and P and test for autocorrelation at the 5% level of significance. 121 1 4' m .; . . P.' - ' , , a , 4., - LI. ' ' . 10.3 as follows: The formula for the structural coefficients of the demand function cannot be derived from the reducedform d c l e n t s because the demand function in this model is underdetermined. (b) Do Ans. (c) How do these compare with the structural parameters obtained by regressing Q, on P, directly? (b) Statistical inference requires first of all that the sample be representative of the population being sampled. 8.28 + + R2 = 81.29% + (a) Fit a polynomial function of the form Y = bo blY - b2X2 to the data in Table 6.12. Substituting the values from Tables 7.1 and 7.2 into Eq. (6.18) for the simple-correlation coefficient, we get Thus - 0.9854 - (0.9917)/(0.9725) ryx-x2 = ryx1 - ryx2rx1x2 r_ jkx1-rx1-r2 1 - 0.9725 j| % 0.7023, or 70.23% | - 0.9917' and Therefore, X2 is more important than X1 in explaining the variation Y. Thus R2 = - j : / Y; = 27.7270140 % 0.6932, or 69.32%. By setting a at 5%, the firm accepts the calculated risk of esis 5% of the time. Since we have two samples with data that are paired (two ratings per person), we first take the difference of the two ratings for each person to test the hypotheses Ho: MedA - MedB 2 O H I : MedA - MedB < O The steps are shown in Table 5.28. 6 SIMPLE REURESSION ANALYSIS Y 70 - 60 50 - 40 30 20 10 - x Fig. ~ /C n x?) zxi7 Ex: 4 and land are CxiYi - EX, ' since x xi = 0 ci Yi where ci = xi/ C x; = constant because of assumption 5 (Sec. You're Reading a Free Preview Pages 292 to 317 are not shown in this preview. The conditionalprobability of picking another king, given that the king of dimaonds was already picked and not replaced, is Thus the probability of picking the king of diamonds on the first pick and, without replacement, picking another king on the second pick is 1 3 3 P(KD and K) = P(KD) . (a) Why is this a simultaneous-equations model? 7.15(c) [which utilizes only the estimated values of land b2 found in Prob. (b) Draw a figure showing the sampling distribution of an unbiased and a biased estimator. Applied econometrics examines the problems encountered and the findings in particular fields of economics, such as demand theory, production, investment, consumption, and other fields of applied economic research. The sum of the togrm is a bar graph of a frequency distribution, where classes are rizontal axis and frequencies along the vertical axis. 11.3, y3. (a) ryxl.x2= 0.74 (b) ryx2.xl = 0.18 (c) X I (c) Which independent MATRIX NOTATION 7.43 (a) What is the first column of the X matrix? An economic theory expressed in (exact or deterministic) mathematical form 1.20 Express Eq. (1.5) in stochastic form. Neither McGraw-Hill nor its licensors shall be liable to you or anyone else for any inaccuracy, eivor or omission, regardless of cause, in the work or for any damages resulting therefrom. The average deviation, variance, standard deviation, and coefficient of variation for the ungrouped data given in Example 1 can be found with the aid of Table 2.5 (p = 7; see Example 3); DESCRIPTIVE STATISTICS' 1 xN: ' 1 AD = a = 0 = (X - N P (x = 12 - N [CHAP. The more 7 exceeds the hypothesized c(. We do this by adding the following procedure in our SAS program: proc arima; 1 var=y; ep=(1) q=(10); /*AR(1) and - - (1* 0 /) e q=(1 10); /* MA(^) and MA(10) * / ep=(1

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