EXHIBIT 3

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Perform statistical and engineering analysis with the Analysis ToolPak

If you need to develop complex statistical or engineering analyses, you can save steps and time by using the Analysis ToolPak. You provide the data and parameters for each analysis, and the tool uses the appropriate statistical or engineering macro functions to calculate and display the results in an output table. Some tools generate charts in addition to output tables.

+ Show All

The Analysis ToolPak includes the tools described below. To access these tools, click **Data Analysis** in the **Analysis** group on the **Data** tab. If the **Data Analysis** command is not available, you need to load the Analysis ToolPak add-in program.

+ Load the Analysis ToolPak

For a description of each tool, click on a tool name in the following list.

+ Anova

+ Correlation

+ Covariance

+ Descriptive Statistics

+ Exponential Smoothing

+ F-Test Two-Sample for Variances

+ Fourier Analysis

+ Histogram

+ Moving Average

+ Random Number Generation

+ Rank and Percentile

− Regression

The Regression analysis tool performs linear regression analysis by using the "least squares" method to fit a line

through a set of observations. You can analyze how a single dependent variable is affected by the values of one or more independent variables. For example, you can analyze how an athlete's performance is affected by such factors as age, height, and weight. You can apportion shares in the performance measure to each of these three factors, based on a set of performance data, and then use the results to predict the performance of a new, untested athlete.

The Regression tool uses the worksheet function LINEST.

+ Sampling

+ t-Test

+ z-Test

NOTES

- The data analysis functions can be used on only one worksheet at a time. When you perform data analysis on grouped worksheets, results will appear on the first worksheet and empty formatted tables will appear on the remaining worksheets. To perform data analysis on the remainder of the worksheets, recalculate the analysis tool for each worksheet.

- For a list of books that provide detailed information on statistical methods or algorithms that were used to create the Microsoft Excel statistical tools and functions, see A bibliography of statistical methods and algorithms.

- How do I install the Data Analysis Toolkit from Office Basic CD?

- How can you access Data Analysis Plus for MS Excel?

See Also

Perform Regression Analysis in Excel 2007