
LINEAR REGRESSION, TESTING EQUALITY OF MEANS

linear regression The file: lin_regression and equality of means – students.xlsx gives you an example of the treatment of a set of measurement data (Energy gap in German, i.e. the resistance in Ohms, versus temperature (in C)).

Perform an analogous operation for the data in the sheet ‘Platinum’, using:

a) the formulae from the lecture

http://www.fis.agh.edu.pl/lenda/stat/wykl_21_lin_reg.pdf

b) ‘linear regression’ option in the ‘Data analysis’ excel-pack.

equality of means The same file: lin_regression and equality of means – students.xlsx contains data of measuring reaction times for two groups of students. Test the hypothesis about equality of the means using:

a) the formulae from the lecture

http://www.fis.agh.edu.pl/lenda/stat/wykl_17_hypo_eqilty_means.pdf

b) ‘equality of means’ option in the ‘Data analysis’ excel-pack.