%% 成分分析

% 导入数据

clc, clear

A = importfile2("C:\Users\y\Desktop\玻璃成分.xlsx");

name = A.Properties.VariableNames;

% 其中无风化为rank1，风化为rank2

X1 = A.rank1;

X2 = A.rank2;

%组合自变量

X = [X1,X2];

s = size(X);

X = [X, ones(s(1, 1), 1)];

R= [];

S=[];

% 各元素拟合

for i = 8 : 21

Y = A{:, i};

[b, bint, r, rint, stats] = regress(Y, X);

R = [R;b'];

S = [S;stats];

YY = X\*b;

x = 1:1:s(1,1);

plot(x,Y,'-\*b',x,YY,'-or');

title(name(i));

xlabel('编号');

ylabel(name(i));

legend('原数据','拟合数据');

grid on;

end

R,S

Hahaah