PHILIP LYDIA

17/ENG07/019

PETROLEUM ENGINEERING

ENG 382 ASSIGNMENT V

commandwindow

clearvars

format short g

syms t Kp Td Tp

v = Kp\*(1-exp(-((t-Td)/Tp)))

jace=xlsread('acer','data1');

t1=jace(:,1);

v=jace(:,2);

V=round(v,1)

t0=ones(length(t1),1);

t=[t0 t1]

[Kp, Td, Tp]=regress(v,t)

Kp=V

rsquaredvalue=Kp(1)

figure1

plot(t,v)

hold on

grid minor

xlabel('time(min)')

ylabel('volume(m^3)')

legend('experimental','linearized')