

AGIAMAH BENJAMIN

MECHATRONICS ENGINEERING

17/ENG05/005

commandwindow clearvars clc

formatshortg

symstkptdtp

$v = k_p * (1 - \exp(-((t - t_d)/t_p)))$

mdata=xlsread('1587203818odevbesdata','data1');

t1=mdata(:,1); v=mdata(:,2);

V1=round(mdata(900,2),1) t0=ones(length(v),1)

t=[t0t1]

[mcoeff,mcoeffint,mresid,mresidint,manova]=regress(v,t);

%mcoeff

%rsquaredvalue=mcoeff(1)

mcoeff manova kp=V1

td=-mcoeff(1) tp=mcoeff(2)

plot(t,v(:,1));

gridon

gridminor

Beta=nlinfit(V,t,vf,beta0)

Beta0=[t0t1]

Plot(t,Beta)

