**EJIKE DAVID CHINEDU**

**18/ENG04/078**

**ELECTRICAL ENGINEERING**

commandwindow

clearvars

clc

format short g

syms t kp td tp

v = kp\*(1-exp(-((t-td)/tp)))

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

t1 = mdata(:,1);

v = mdata(:,2);

V1 = round(mdata(900,2),1)

t0 = ones(length(v),1)

t = [t0 t1]

[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));

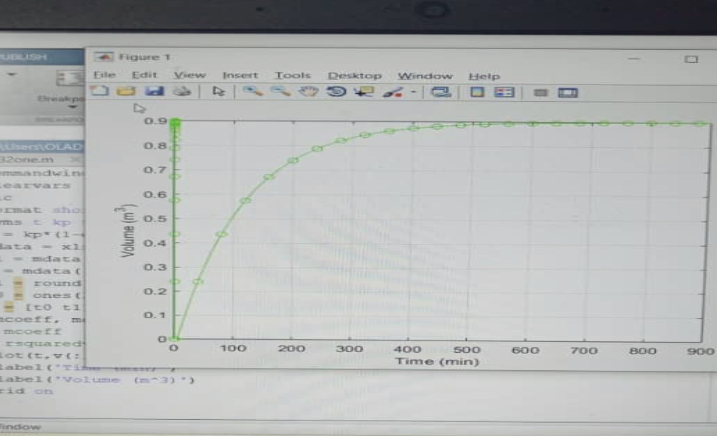
grid on

grid minor

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

Beta0 = [t0 t1 ]

Plot(t,Beta)

******

Command window

Clear

Clc

Format store g

Syms t kp td tp

Mdata =xls read(‘1587203818odevbe sdata’, ‘data1’);

T1=mdata(:,1);

V=mdata(:,2);

To=ones(length(v), 1)

T=(To T1)

Y=@(kp,td,tp)(-((exp(T1)-exp(td))/exp(tp)));

Initials=(0.1,0.1,0.1)

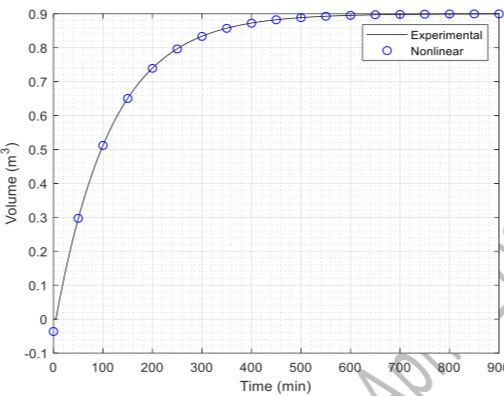
%(mcoeff, mcoeffint, mresid, mresidint, manova)=nlinfit (v,t,y,initials)

%mcoeff

Plot(t,v)

Grid on

Grid minor

******