

CHIANEKE OKWUDILI EMMANUEL

CHEMICAL ENGINEERING

17/Eng 01/006

commandwindow

clearvars

clc

format short g

syms t kp td tp

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

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

t1 = xdata(:,1);

v = xdata(:,2);

V1 = round(xdata(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)
```

