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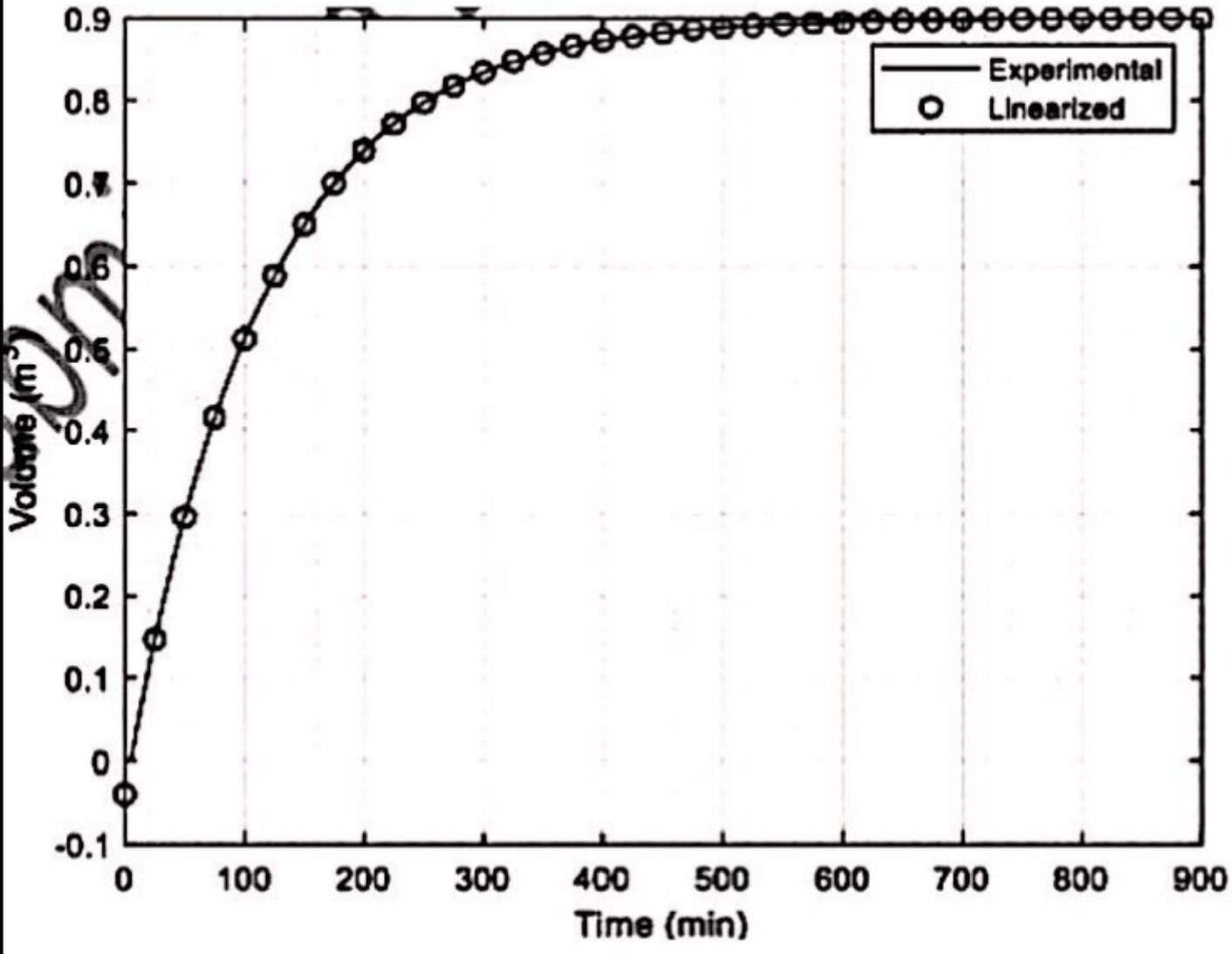
12/ENG02/0483
Computer engineering

Command window
clear all
clc
format shortg
Syms t Kp tdtp
V = Kp * (1 - exp(-(t - td)/tp))
mdata = xlsread('codebesdata', 'Sheet1');
t1 = mdata(:,1);
V = mdata(:,2);
V1 = round(mdata(900,2),1)
to = ones(length(t),1)
t = [to t1]
% [mcoeff, mCoeffp int, mresid, mresident, manova]
= regress(V,t);
% mcoeff
% rsquared value = nocoeff(1)
% plot(t, V)
% grid on
% axis tight
% grid minor



% grid minor

Command window

clear vars

clc

format short g

Syms t Ap td tp

mdata = xlsread('15-7-2038180 delibegdata', 'data');

t1 = mdata(:, 1);

v = mdata(:, 2);

to = ones(length(v), 1)

t = [to t1];

y = @(Ap, td, tp) (-(exp(t1) - exp(-td)) / exp(tp)));

in-fds = [0.1, 0.1, 0.1]

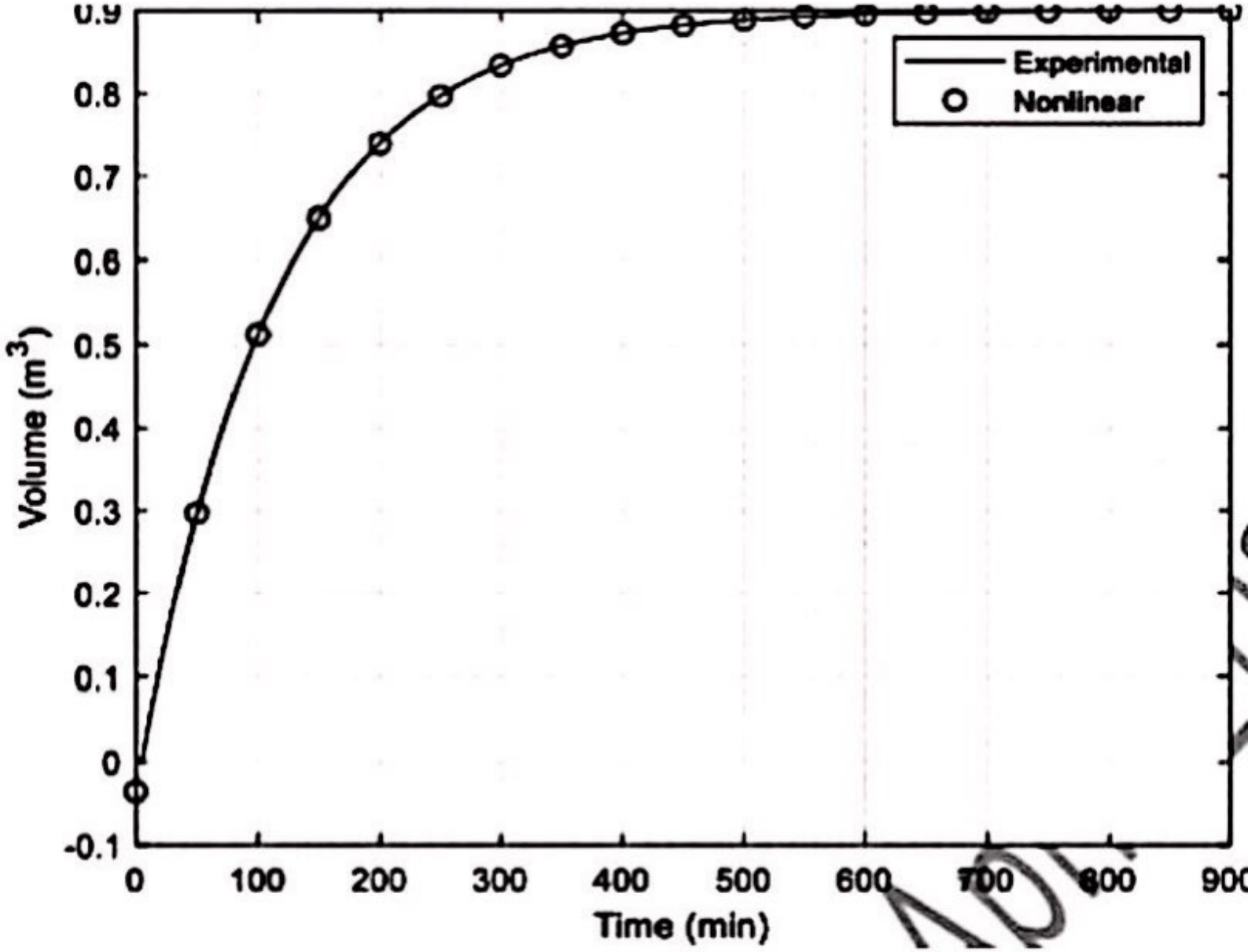
% [mcoeff, mCOeffint, mresid, mresident, mJacobian] = nlinfit (t, y, initfds)

% mCoeff

Plot (t, v)

grid on

grid minor



5 Command window

```
clear vars
format shortg
a = xlsread('demo.data')
t = a(:,1)
v = a(:,2)
N = length(t);
X = [ones(N,1) v(:)]
J = (X'*X)\(X'*t(:))
b = J.^-1
c = 0.00145
x1 = min(v)
xb = max(v)
k = linspace(xa,xb,20)
f = (b:k) - c
scatter(t,v)
plot(t,v,'-b');
hold on
% (msse, mmae, mse, mmae) = regress(t,v)
% msse
% mmae
% mse
% mmse
```

grad or
grad minor
grad tgt