```
% Experiment 1
% A. Data
U = [1.2118 \ 1.1962 \ 1.1787 \ 1.1619 \ 1.1462 \ 1.1257 \ 1.1096 \ 1.0892 \ 1.0694 \ 1.0490 \ 1.0222 \ \dots
    0.9900 0.9724 0.9439 0.9134 0.8802 0.8335 0.7849 0.7135 0.6039 ];
I = 100 : -5 : 5;
if size(U) ~= size(I)
   size(U)
    error('U I not equal')
end
% B. Pro
UFix = 1
UFix =
IFix = 2*10^-1
IFix =
                      0.2
U = U .* URange
U = 1 \times 20
                   1.2118
                                            1.1962
                                                                     1.1787 •••
U = U'
U = 20 \times 1
                   1.2118
                   1.1962
                   1.1787
                   1.1619
                   1.1462
                   1.1257
                   1.1096
                   1.0892
                   1.0694
                   1.049
I = I .* IFix;
I = I'
I = 20 \times 1
    20
    19
    18
    17
    16
```

```
15
14
13
12
11
```

```
% C. Fit
ft = fittype('poly4');
f = fit(U, I, ft);
plot(f, U, I);
xlabel('U / V')
ylabel('I / mA')
title('硅光电池暗伏安特性曲线(正向)')
```

