

```
load('D:\文献\数模\2017B\L-I-20C.mat')
initial = [0.5 0.3E-3 2.6E3 1.246E-3 -2.545E-5 2.908E-7 -2.531E-10 1.022E-12];
T = 273.15 + 20;
P = P./1000;
I = I./1000;
x = initial;
Pi = x(1).*(I - x(2) - x(4) - x(5).*(T + (I.*U - P).*x(3) + 273.15) - x(6).*(T + (I.*U - P).*x(3)).^2
y = sum((P - Pi).^2./1401)
```

```
y = 0.0079
```

```
first([0.5 0.3E-3 2.6E3 1.246E-3 -2.545E-5 2.908E-7 -2.531E-10 1.022E-12])
```

```
ans = 1.7636e-04
```

```
x = fminsearch(@first, initial)
```

正在退出: 超过了函数计算的最大数目

- 请增大 MaxFunEvals 选项。

当前函数值: 0.000000

```
x = 1×8
```

```
103 x
```

```
0.0003    0.0000    3.5935    0.0000   -0.0000    0.0000   -0.0000    0.0000
```

```
Pi = x(1).*(I - x(2) - x(4) - x(5).*(T + (I.*U - P).*x(3) ) - x(6).*(T + (I.*U - P).*x(3) ).^2
figure
plot(Pi)
hold on
plot(P)
```

