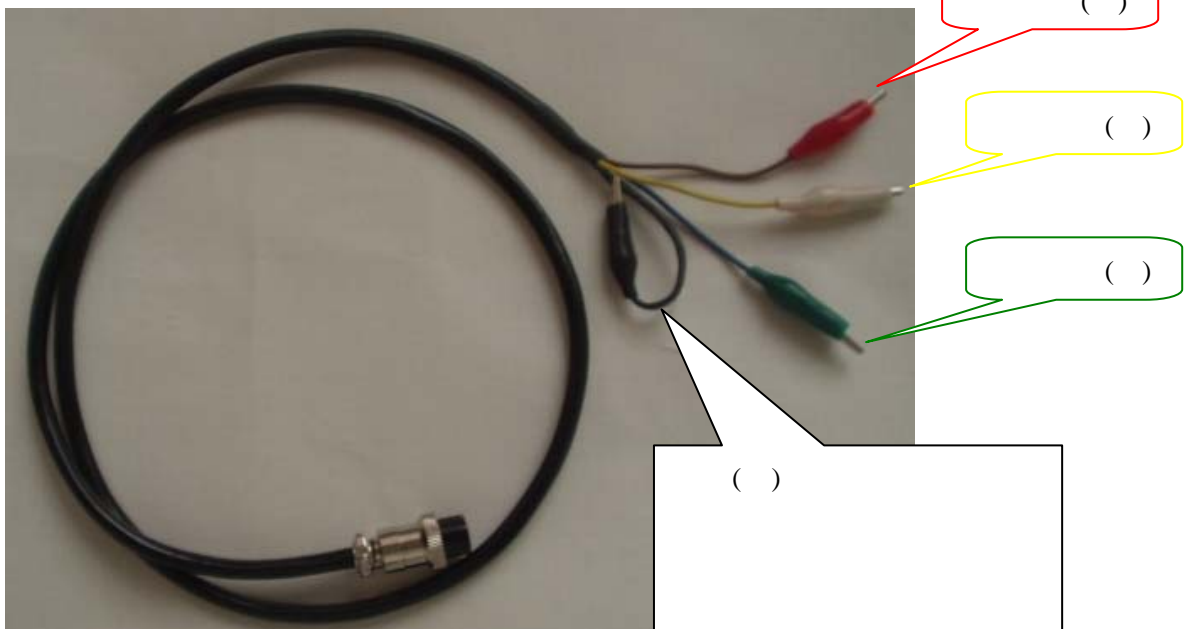


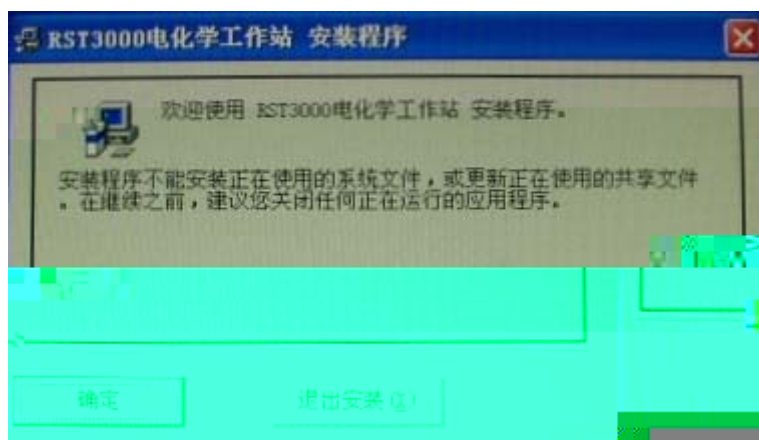
RS-232



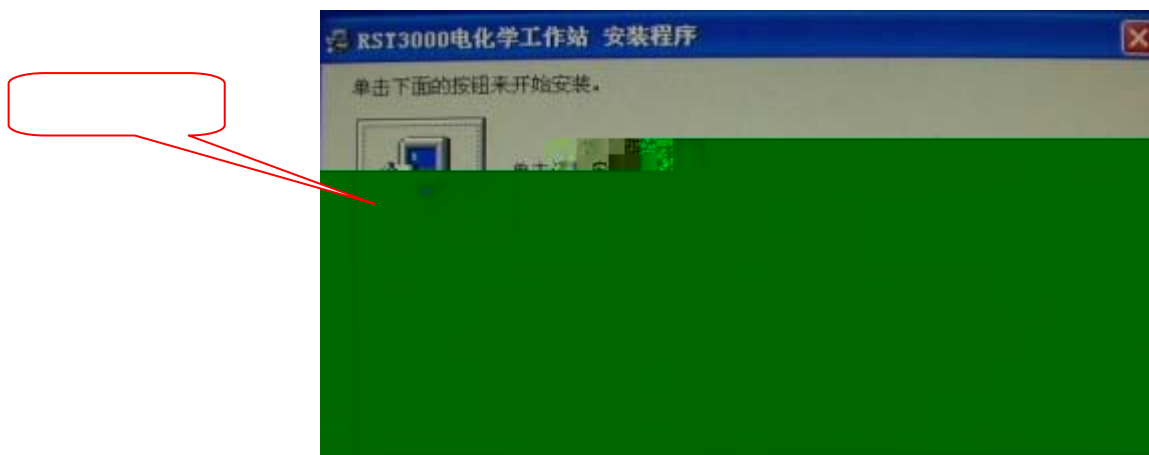
**RS-232**

setup.exe

RST3000

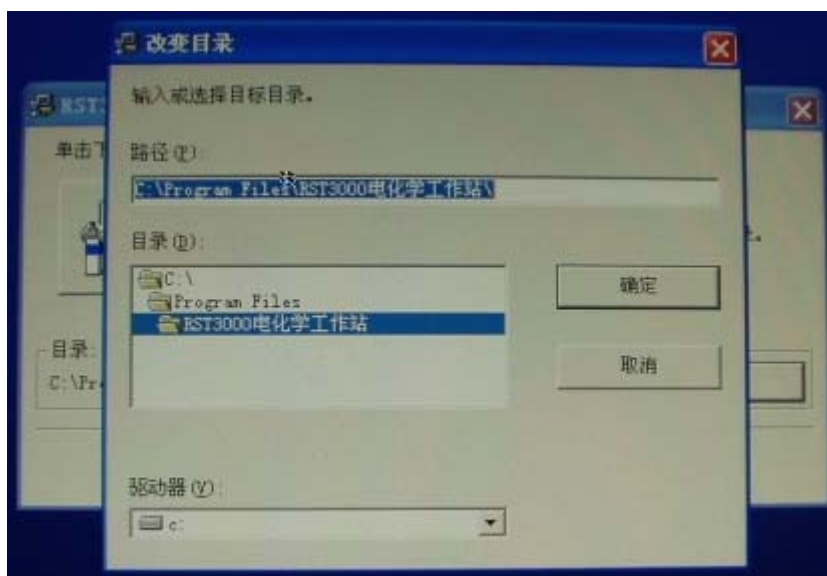


" "

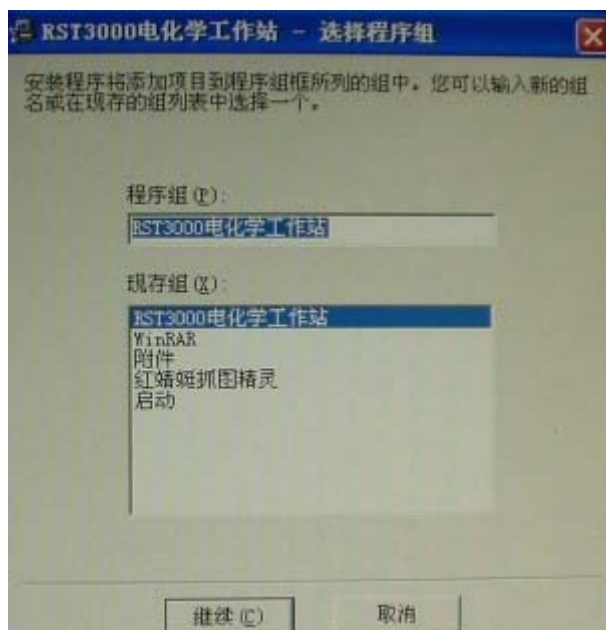


" C:\Program Files\RST3000 \"

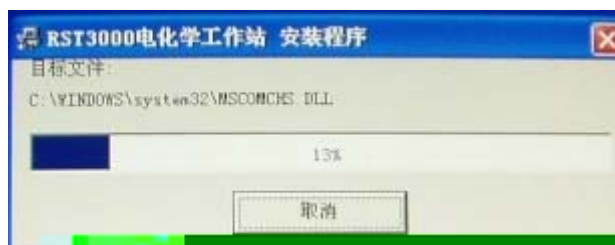
" " " "



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RST3000

2

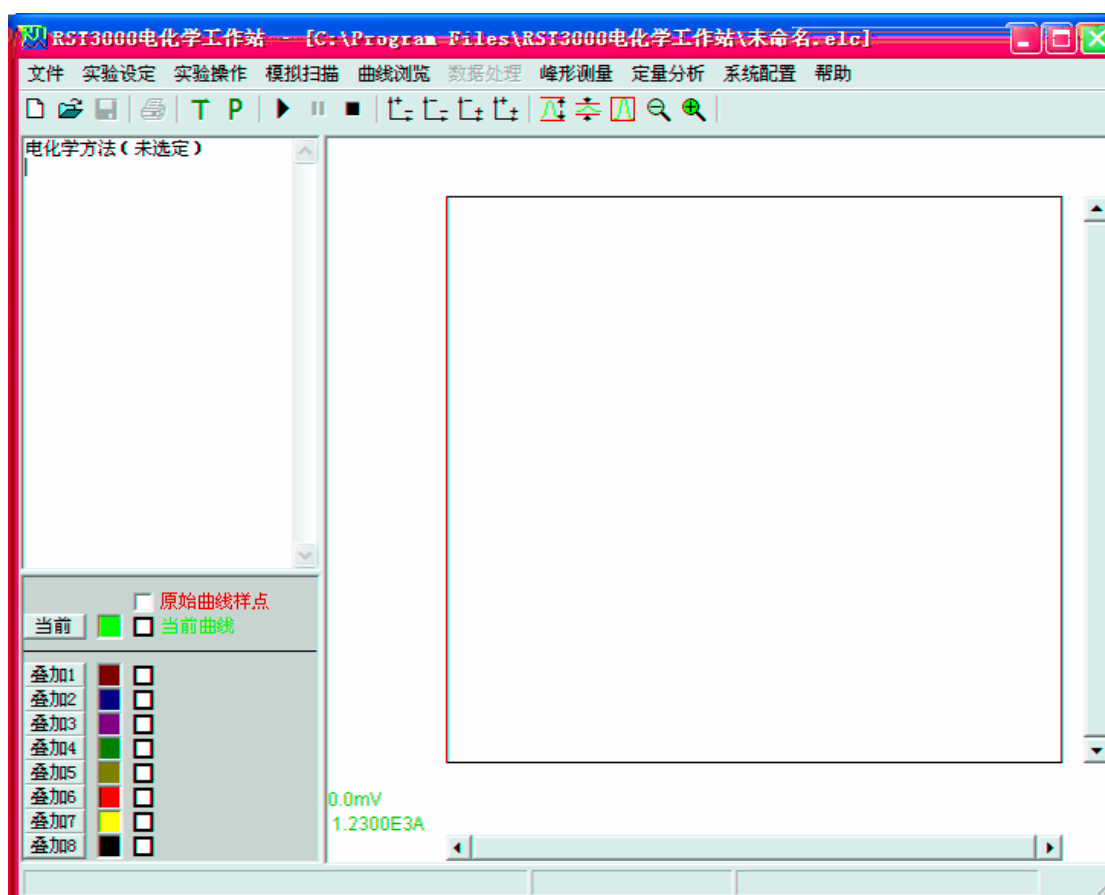
"

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RST3000

.exe



4

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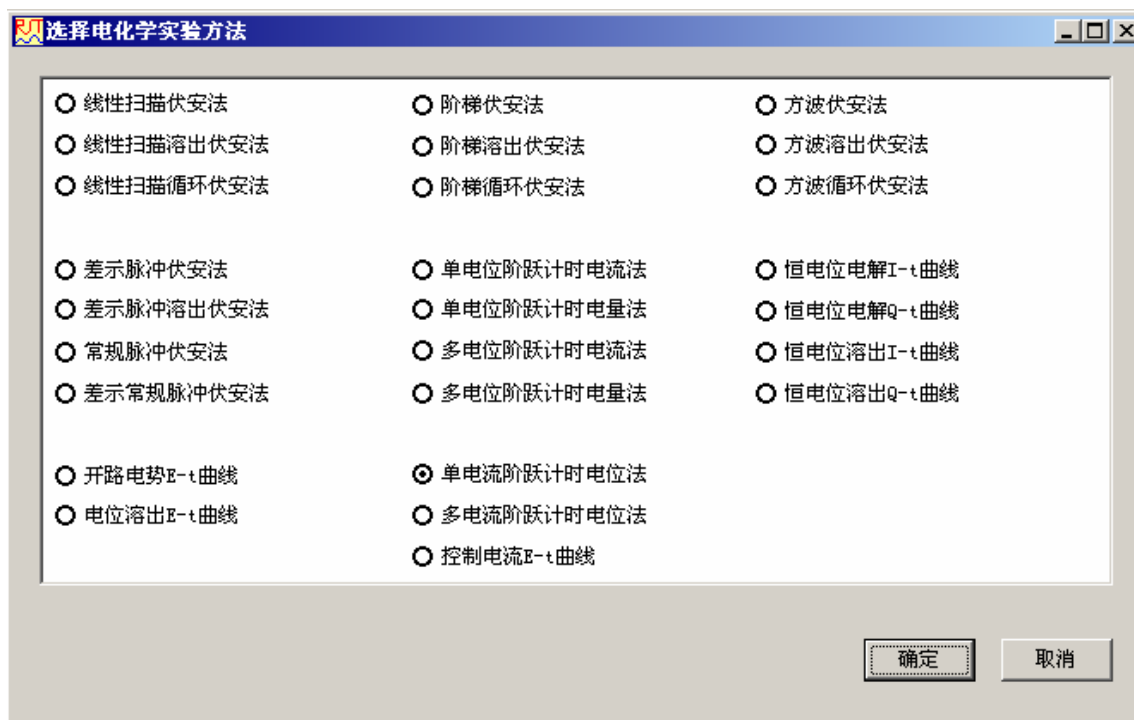
"

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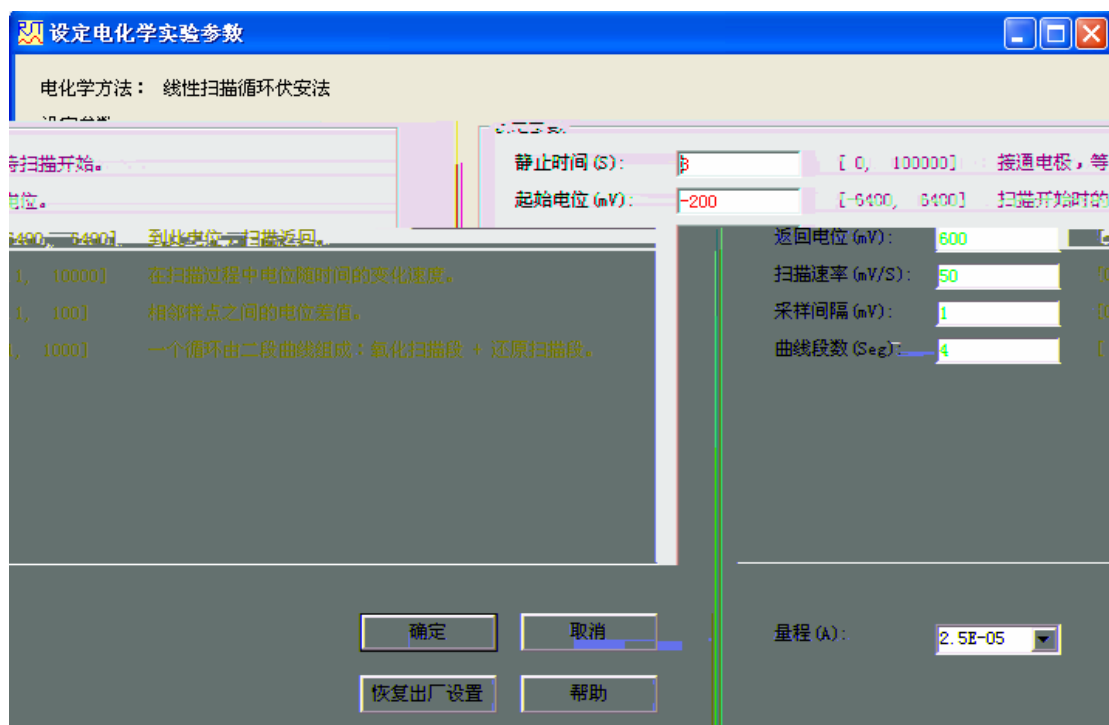
3100



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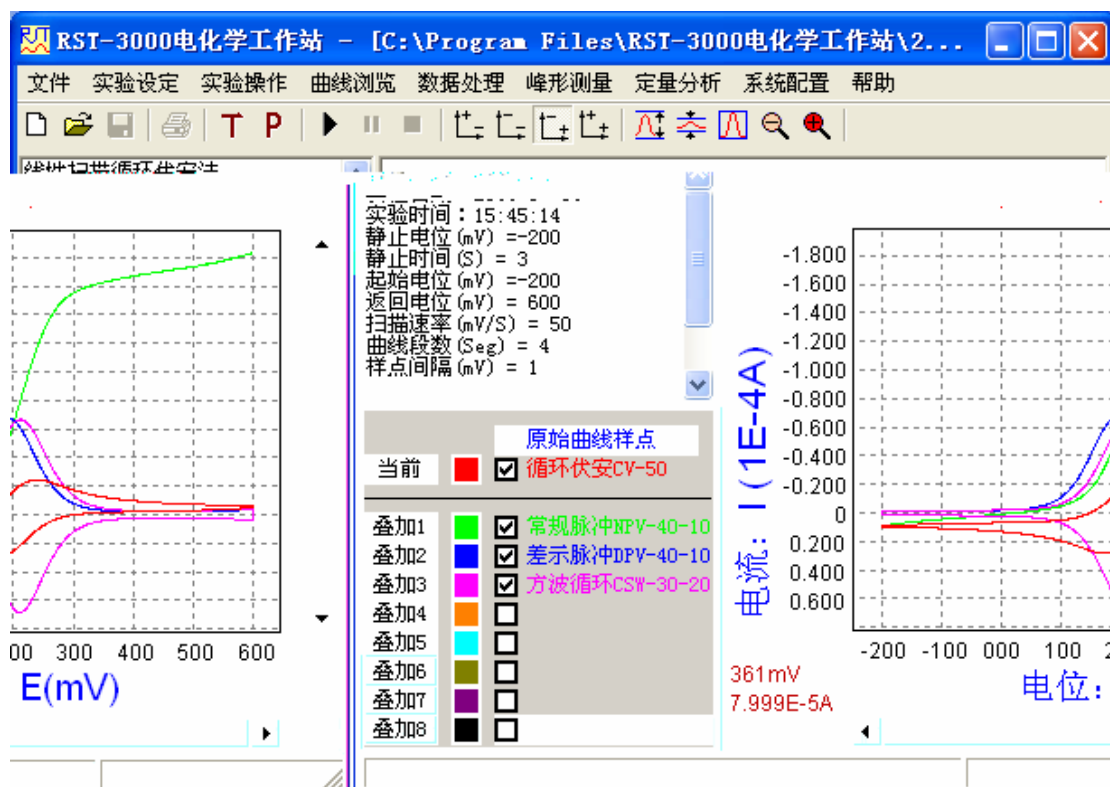
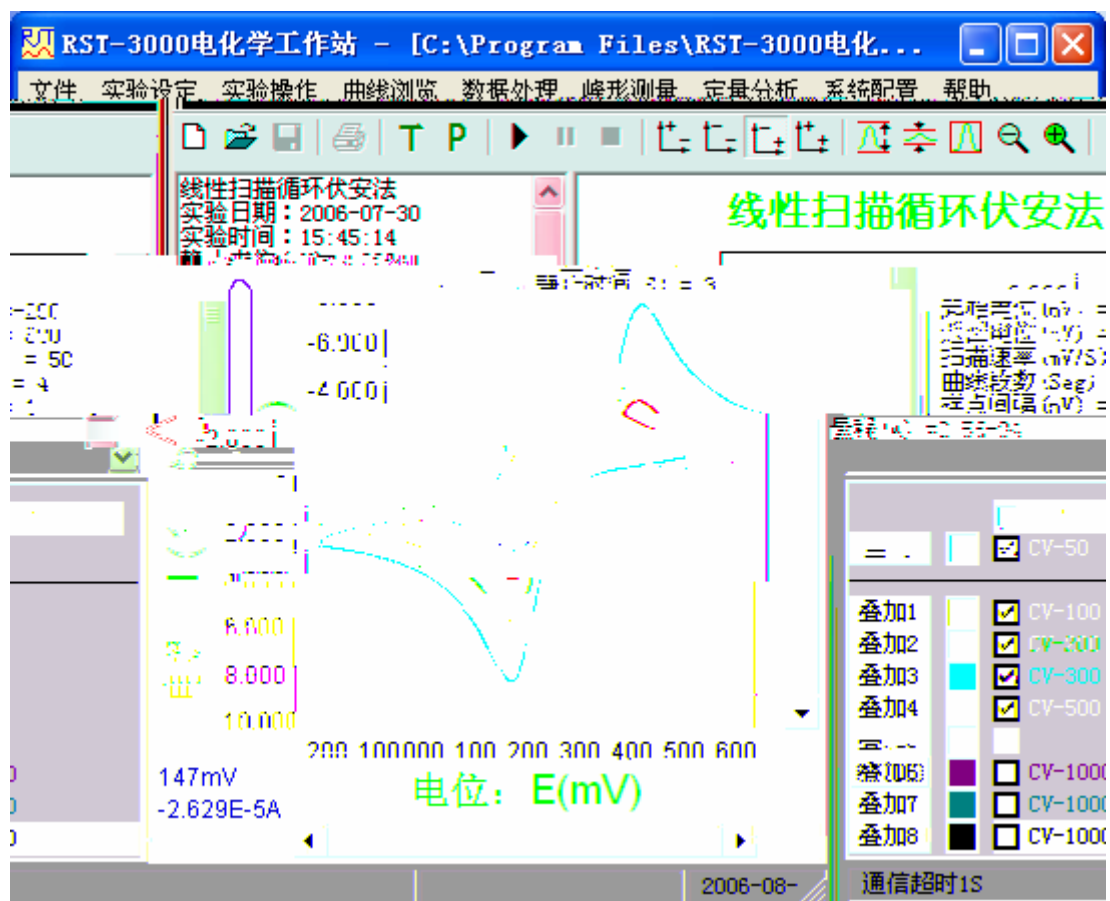
" "

" 2"

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" 2"

当前		<input type="checkbox"/>	原始曲线样点
		<input checked="" type="checkbox"/>	循环伏安CV-50
叠加1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	常规脉冲NPV-40-10
叠加2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	差示脉冲DPV-40-10
叠加3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	方波循环CSW-30-20
叠加4	<input type="checkbox"/>	<input type="checkbox"/>	
叠加5	<input type="checkbox"/>	<input type="checkbox"/>	
叠加6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
叠加7	<input type="checkbox"/>	<input type="checkbox"/>	
叠加8	<input type="checkbox"/>	<input type="checkbox"/>	

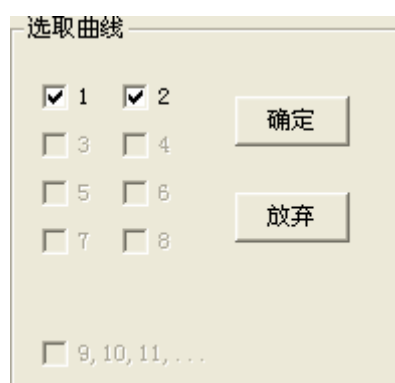


2



序号	电位 (mV)	电流 (A)
000	-200.0	9.788514E-6
001	-199.0	9.658814E-6
002	-198.0	9.452820E-6
003	-197.0	9.384155E-6
004	-196.0	9.338380E-6
005	-195.0	9.292603E-6
006	-194.0	9.254456E-6
007	-193.0	9.216309E-6
008	-192.0	9.185792E-6
009	-191.0	9.155274E-6
010	-190.0	9.124757E-6
011	-189.0	9.094239E-6
012	-188.0	9.063721E-6
013	-187.0	9.040833E-6
014	-186.0	9.017945E-6
015	-185.0	8.987427E-6
016	-184.0	8.956909E-6
017	-183.0	8.941651E-6
018	-182.0	8.911134E-6
019	-181.0	8.886245E-6
020	-180.0	8.860937E-6

5



选取曲线

<input checked="" type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	确定
<input type="checkbox"/> 3	<input type="checkbox"/> 4	
<input type="checkbox"/> 5	<input type="checkbox"/> 6	放弃
<input type="checkbox"/> 7	<input type="checkbox"/> 8	
<input type="checkbox"/> 9, 10, 11, ...		

" "

1—8

9

" "

曲线平滑滤波

☐ 5点

☐ 7点

☒ 9点

☐ 11点

☐ 13点

☐ 15点

☐ 17点

☐ 19点

☐ 21点

执行

恢复

返回

" "

" "

" "

" "

" "

" " " "

10

微分处理

☒ 一阶微分

☐ 二阶微分

☐ 三阶微分

执行

恢复

返回

剔除两端样点数：

3

" "

峰图形测量

<input checked="" type="radio"/> 1	<input type="radio"/> 2	添加
<input type="radio"/> 3	<input type="radio"/> 4	
<input type="radio"/> 5	<input type="radio"/> 6	
<input type="radio"/> 7	<input type="radio"/> 8	删除
		返回

半峰法

总电流最大

☒ 显峰

“ “ “ “

$$\begin{array}{ccc} E_p & i_p & A_{hp} \\ \text{"} & & \end{array}$$

" "

$$E_p \qquad i_p \qquad A_p$$

**S**

$$\mathbf{E}_w \qquad \mathbf{i}_w$$

8

9

10

" " " "

### 标准加入法计算

**加标前被测物**

体积  $V_x$ : .01

峰高  $h_x$ : .00002

浓度  $C_x$ : 1.538462E-04

**标准样品**

体积  $V_s$ : .001

浓度  $C_s$ : .001

**加标后被测物**

体积  $V_m$ : .011

峰高  $H_m$ : .00003

浓度  $C_m$ : 2.307692E-04

附：计算公式

$$V_m = V_x + V_s$$

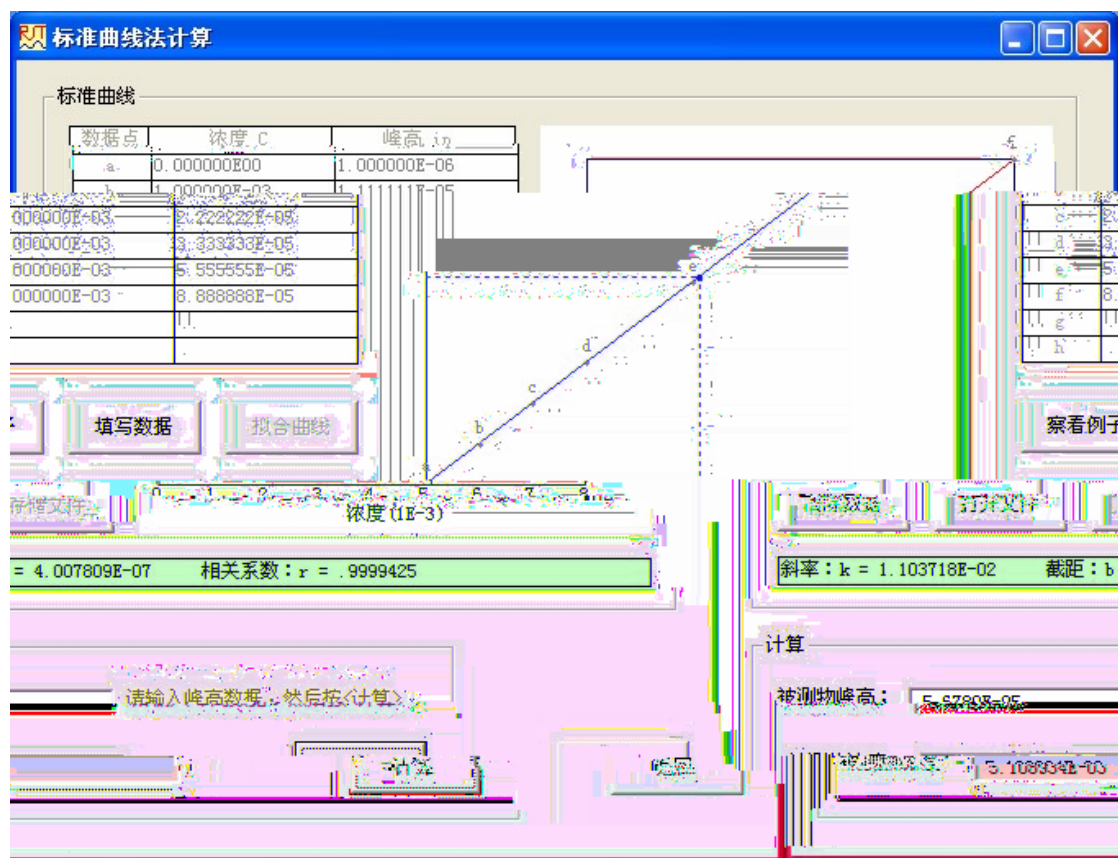
$$C_x = h_x * V_s * C_s / (H_m * V_m - h_x * V_x)$$

$$C_m = (V_x * C_x + V_s * C_s) / V_m$$

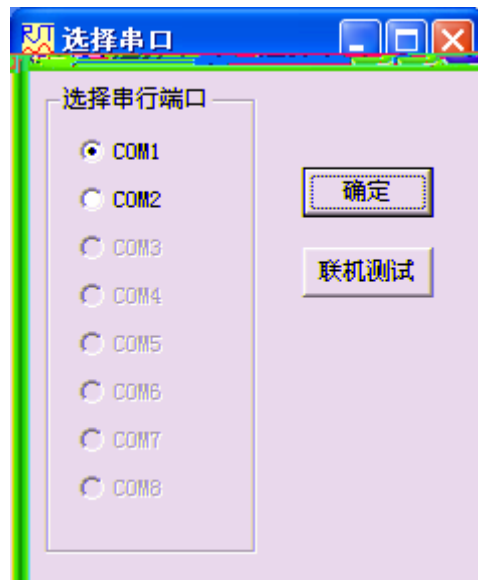
请在白色框中输入参数，然后按<计算>

察看例子
计算结果
返回

清除数据
计算成功!



“ ”  
“ ”  
k b  
r “ ”  
“ ”



11

" "

elc

elc

" "

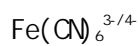
elc

(bmp)

txt

RST3000





59mV

RST3000 ;

 $1.00 \times 10^{-2} \text{ mol/L } \text{K}_3\text{Fe}(\text{CN})_6$        $2.0 \text{ mol/L } \text{KNO}_3$ 
**1**

5 50mL  $\text{KNO}_3$   $\text{K}_3\text{Fe}(\text{CN})_6$   $\text{KNO}_3$   
 $0.2 \text{ mol/L } \text{K}_3\text{Fe}(\text{CN})_6$   $1.00 \times 10^{-4}$   $2.00 \times 10^{-4}$   $5.00 \times 10^{-4}$   $8.0 \times 10^{-4}$   
 $1.00 \times 10^{-3} \text{ mol/L}$

**2** $\text{Al}_2\text{O}_3$ , 200 3001:1 1:1HNO<sub>3</sub>**3**  $\text{K}_3\text{Fe}(\text{CN})_6$ 
 $5.00 \times 10^{-4} \text{ mol/L } \text{K}_3\text{Fe}(\text{CN})_6$  (  $0.20 \text{ mol/L } \text{KNO}_3$  )
N<sub>2</sub> O<sub>2</sub>

50mV/s

-200 +600mV

50 100 200 300 500mV/s

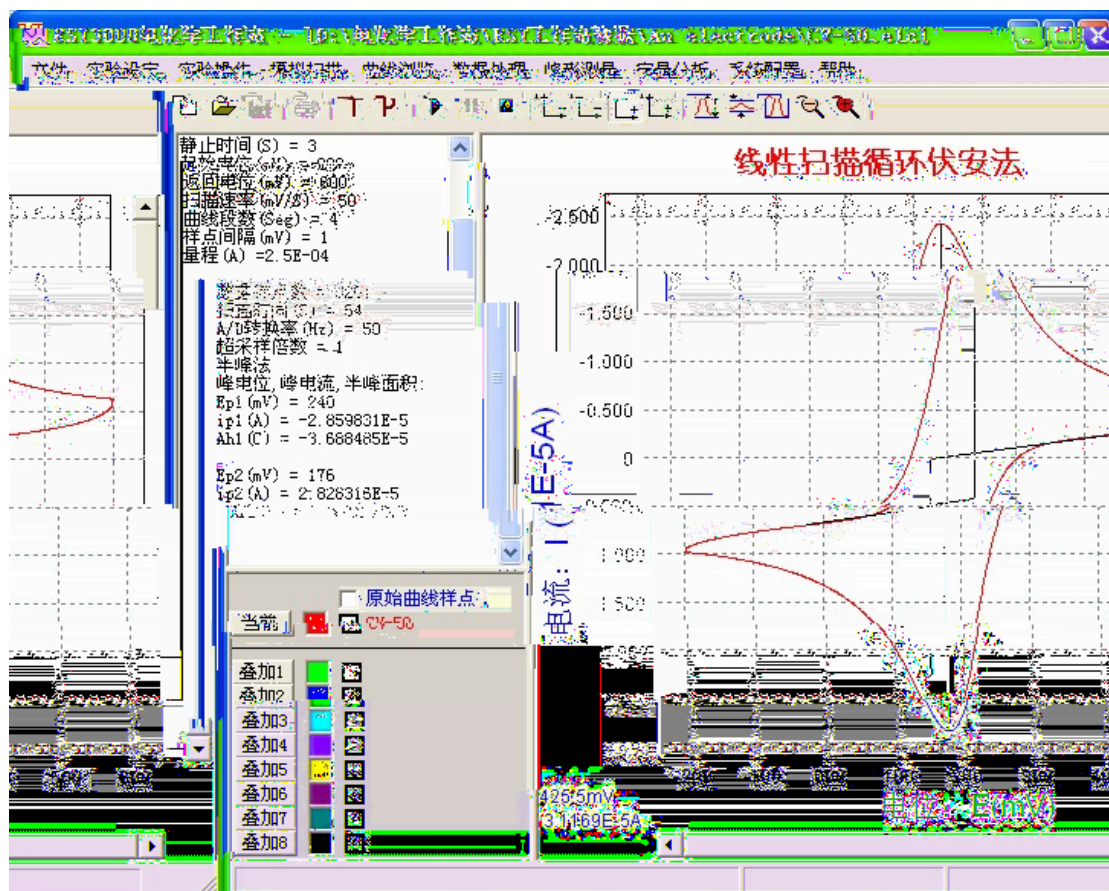
-200 +600mV

**4.** $\text{K}_3\text{Fe}(\text{CN})_6$ 

50mV/s -200 +600mV

 $1.00 \times 10^{-4}$ 
 $2.00 \times 10^{-4}$   $5.00 \times 10^{-4}$   $8.0 \times 10^{-4}$   $1.00 \times 10^{-3} \text{ mol/L}$  (  $0.20 \text{ mol/L } \text{KNO}_3$  )
)  $\text{Fe}(\text{CN})_6^3$

1.  $K_3Fe(CN)_6$  ( 0.20mol /L  $KNO_3$ )



$E_{p1}=240mV$        $E_{p2}=176mV$        $i_{p2}=2.83 \times 10^{-5}A$   
 $i_{p1}=2.86 \times 10^{-5}A$        $i_{p1}/i_{p2}=1$        $64mV$   
 $Fe(CN)_6^{3-/4-}$

2. 50 100 200 300 500mV/s

$i_p$        $i_p^{1/2}$        $i_p$   
 $i_p$        $i_p$

3.  $Fe(CN)_6^{3-}$

$Fe(CN)_6^{3-}$

