

The Slide Wire Potentiometer

Name: _____ Date: _____ Instructor's initials: _____

Partner: _____ Group No.: _____

Clarifications and corrections:

Procedure: Set the voltage at the power supply to 2 V when it is connected to the slide wire potentiometer.

Data:

The e.m.f listed on the standard cell $E_s =$ _____ V

The voltage of the power supply $V_{AB} =$ _____ V

I. New Dry Cell

The balance position of the standard cell $s =$ _____ cm

The balance position x (in cm)

	1	2	3	4	5
Dry Cell					
Loaded Dry Cell					

Calculations:

	1	2	3	4	5
E_x Volt					
V_I Volt					
r					

Average and SD for:

	Avg	SD+ / -
E_s		
r		

II. Old Dry Cell

The balance position of the standard cell $s =$ _____ cm

The balance position x (in cm)

	1	2	3	4	5
Old Dry Cell					
Loaded Old Dry Cell					

Calculations:

	1	2	3	4	5
E_x					
V_T					
r					

Average and SD for:

	Avg	SD+ / -
E_x		
r		

III. Daniell Cell

The balance position of the standard cell $s = \underline{\hspace{2cm}}$ cm

The balance position x (in cm)

	1	2	3	4	5
Daniel Cell					
Loaded Daniel Cell					

Calculations:

	1	2	3	4	5
E_x					
V_T					
r					

Average and SD for:

	Avg	SD+ / -
E_x		
r		