

物理实验数学中心

Physics Expeiment Center



Wheatstone Bridge

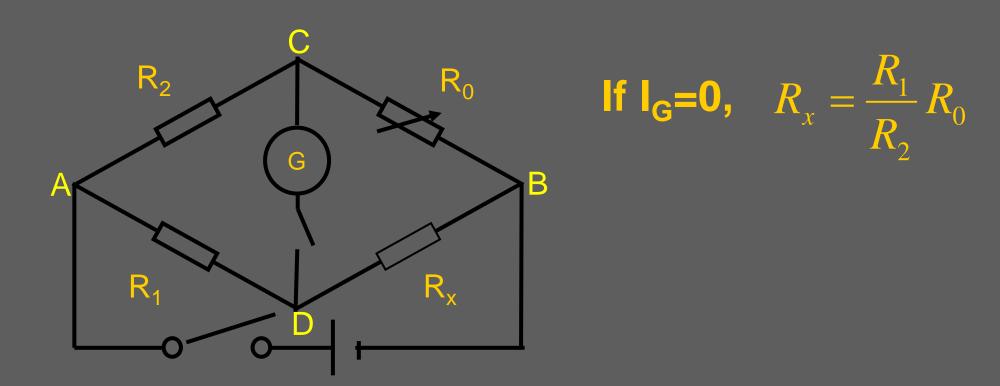
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I. Purposes

1. The structure and measurement principles of Wheatstone Bridge.

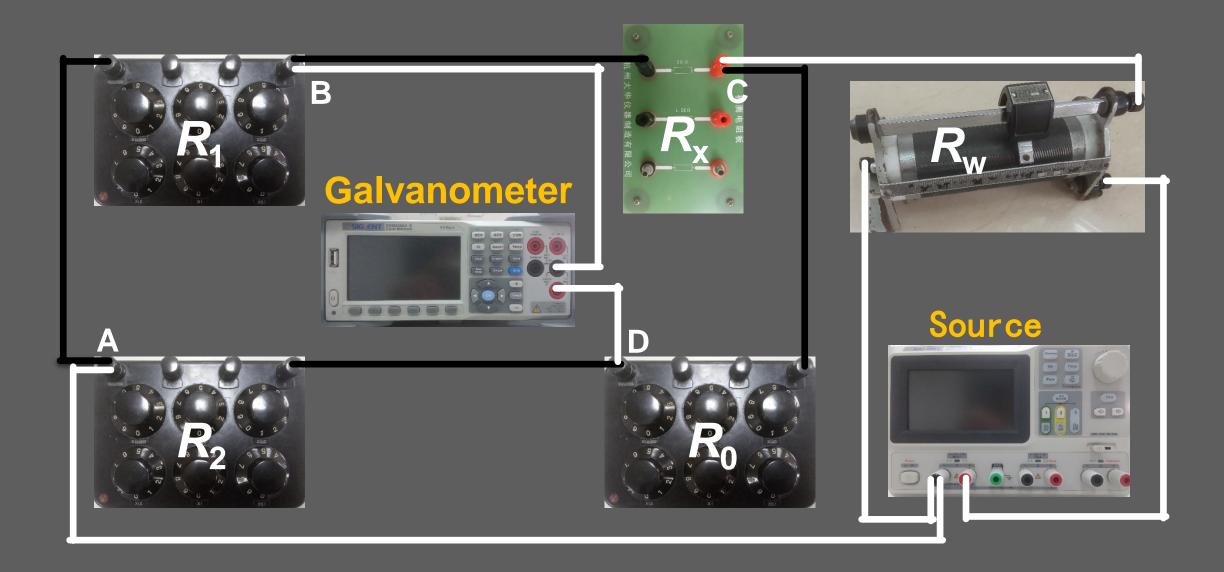
2. Build the circuit and handle the method of measuring resistance.

II. Principles



Bridge sensitivity: $S=\Delta n/(\Delta R_0/R_0)$

Circuit



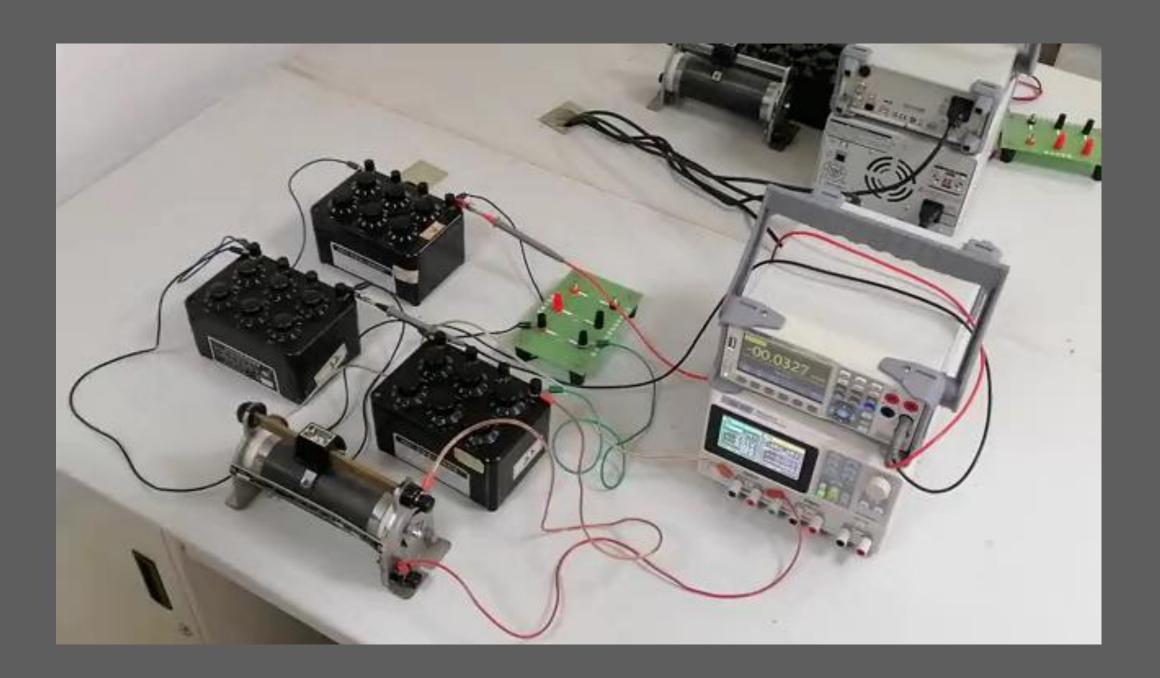


Table I

R	R_1/Ω	R_2/Ω	R_0/Ω	R_{x1}/Ω
1	100.0	1000.0	302.9	
2	100.0	2000.0	602.9	

Table II

R	R_1/Ω	R_2/Ω	R_0/Ω	R_{x2}/Ω
1	1000.0	1000.0	1475.5	
2	1000.0	2000.0	2945.5	

END