

RESULT:

The resistance of the given wire has been found to be and the resistivity of the material of given wire has been found to be with error.

CONCLUSION:

Thus, the resistance and the resistivity of given wire is found by using meter bridge.

SOURCES OF ERROR:

- 1. Error may be due to loose connection of the circuit.
- 2. Error may be due to inaccurate measurement of null point.
- 3. Error may be due to resistance of connecting wires.
- 4. Error may be due to non-uniform thickness of experimental wire.
- 5. Error may be due to change in resistance of wire with change in temperature.
- 6. Error may be due to carelessness of experimenter.

PRECAUTIONS:

- 1. Connections should be neat and clean.
- 2. Connecting wires should not be very long.
- 3. Balanced point should be carefully identified.
- 4. Jockey should be pressed gently over the bridge wire.
- 5. Switch off the circuit for a while after identifying a null point.