

General Electric Double Bridge Overview:

- Developed by General Electric, a prominent American multinational conglomerate established in 1892, specializing in electrical equipment manufacturing.
- Popular in the early 1900s as an advanced version of the Wheatstone bridge.
- Essential for accurate low-resistance measurements.

Applications included:

- Testing electrical components.
- Testing conductors and cables.
- Used in research, telecommunications, and electrical engineering.
- Crucial for precise resistance measurements.
- Serves as an example of the transition from analog to digital instrumentation.

Instructions for Use:

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- Place the device on a stable surface and inspect connections, terminals, and dials for proper function.
- Connect the unknown resistance between terminals X1 and X2, ensuring tight connections.
- Set the range dial to match the expected resistance value.
- Adjust dials and knobs to balance the bridge, aiming for zero deflection on the galvanometer.
- Use smaller dials for fine-tuning if necessary.
- Read the resistance value directly from the dials once balanced, based on their settings.
- Record measured resistance values and corresponding dial settings for documentation.
- Return all dials to their initial positions and disconnect test leads after completing measurements.

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References:

- https://en.wikipedia.org/wiki/General_Electric#:~:text=Over%20the%20years%2C%20the%20company,locomotives%2C%20appliances%2C%20and%20finance.
- https://en.wikipedia.org/wiki/Wheatstone_bridge

