

Matthew Atkinson

Nuclear Instrument and control

NUC-3510-OL009

SEP23

1. What three metals are RTD elements normally constructed of? [MO 1.1]

The metals are platinum, copper, and nickel.

2. What is the coefficient of resistance at 20°C for platinum, copper, and iron? Why isn't iron used for RTDs? [MO 1.1]

Platinum copper and iron all are at 100 ohms at 20C.

Iron isn't used for RTDs because it does not have a linear Coefficient of resistance above a certain temperature. Therefore using it would not give accurate readouts in high temperatures.

3. What is the purpose of the porcelain insulator as part of the RTD element internal construction? [MO 1.1]

The porcelain sheath prevents a short forming between the two wires in the RTD.

4. What is the thermoelectric difference of chromel at 400°C relative to platinum? [MO 1.1]

Chromel is at approximately 32 millivolts while PT 90 is at 11 millivolts

5. Fundamentally why does current flow in heated wires of dissimilar materials that are connected, creating a voltage difference? [MO 1.1]

The different metals will have a different resistance at a given temperature. Therefore the measuring junction will have a greater voltage than the reference junction. The voltage will flow high to low. This will create a reading in millivolts on the gauge or will be converted to a temperature.

6. How does an unbalanced bridge circuit differ from a balanced bridge circuit? What are the benefits of using an unbalanced bridge relative to a balanced bridge circuit? [MO 1.5]

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