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Characterization of precision 1 Ω standard resistors due to environmental conditions and power loading

This study focuses on the recent examination of the effects of varying environmental conditions and power loading on precision 1 Ω standard resistors. The effects of temperature, relative humidity, atmospheric pressure and power loading on 1 Ω wire-wound resistance standards are described and characterized. The resistance standards are Leeds and Northrup resistors which are based on Manganin alloy. The characterization process assists in better understanding the behavior of the resistance standards and to make accurate corrections for varying environmental conditions and power loading.

Apply to be
 considered for a student
 award (Yes / No)? No

Level for award
 (Hons, MSc,
 PhD, N/A)?

N/A

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