

EE3103 3
Resistance, resistivity and resistors workbook





EE3103 Resistance, resistivity and resistors assignment 1

1)	How does an increase in length affect a conductors resistance
2)	What are 4 other factors that affect resistance
3)	Write the unit symbol for the measurement of resistance
4)	Write the formula for resistivity?
5)	Write the unit of measurement for resistivity?
6)	What does tempco stand for?
7)	What does R ₀ stand for?
8)	What is the resistivity of copper?
9)	Explain the difference between a linear and non-linear resistor
10)) What is the difference between a fixed and variable resistor?
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11)) Give an example of each of the 2 terms for Q9 and 2 terms for Q10
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12)	What metal is used in a wire wound resistive element?
13)	Explain why a VDR is wired in parallel with the load?
14)	Why does an LDR use a bi metal switch to operate a luminare?
15)	What application is common for a wire wound resistor
16)	What application is common for a PTC thermistor
17)	Name each of the 7 resistors on the front of this workbook