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Experiment – 1

Colour Coding

Aim: Colour code of resistors and verification of series and parallel combination of R, C.

Objectives:

1. To learn Resistor colour code
2. To determine the stated value of a resistor by interpreting the colour code indicated on the resistor.
3. To verify series and parallel combination of R, C using voltage and current division rule

Circuit diagram :

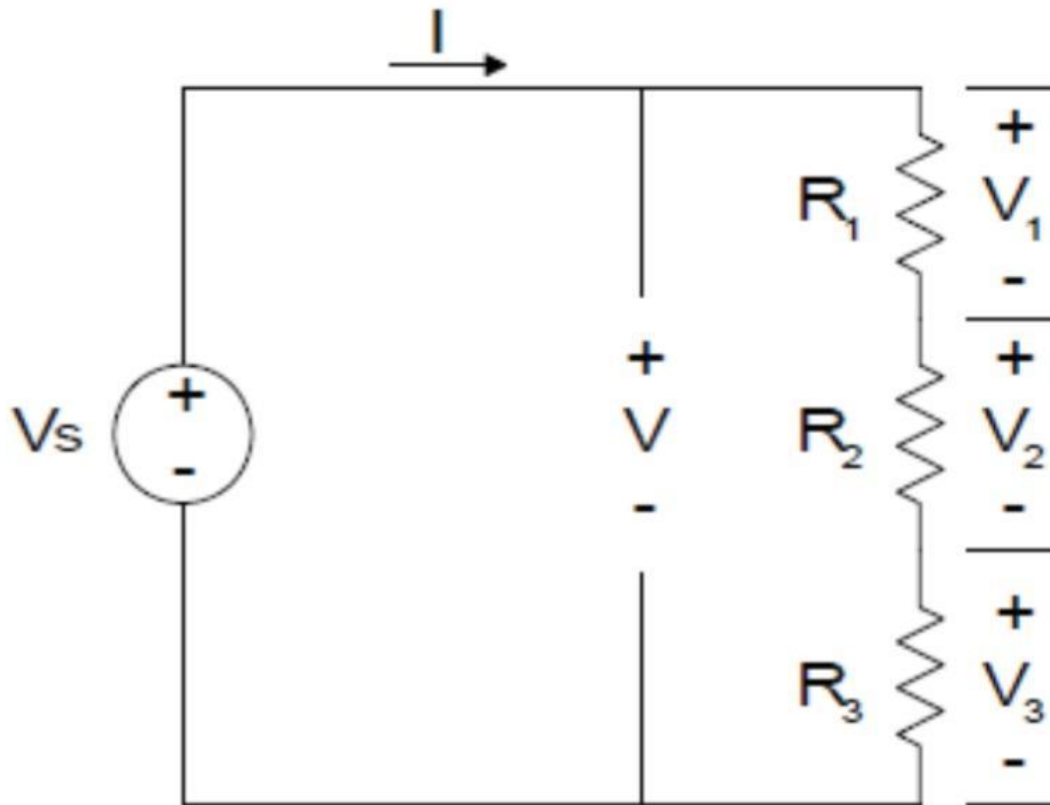


Figure 2a: Series combination of resistors.

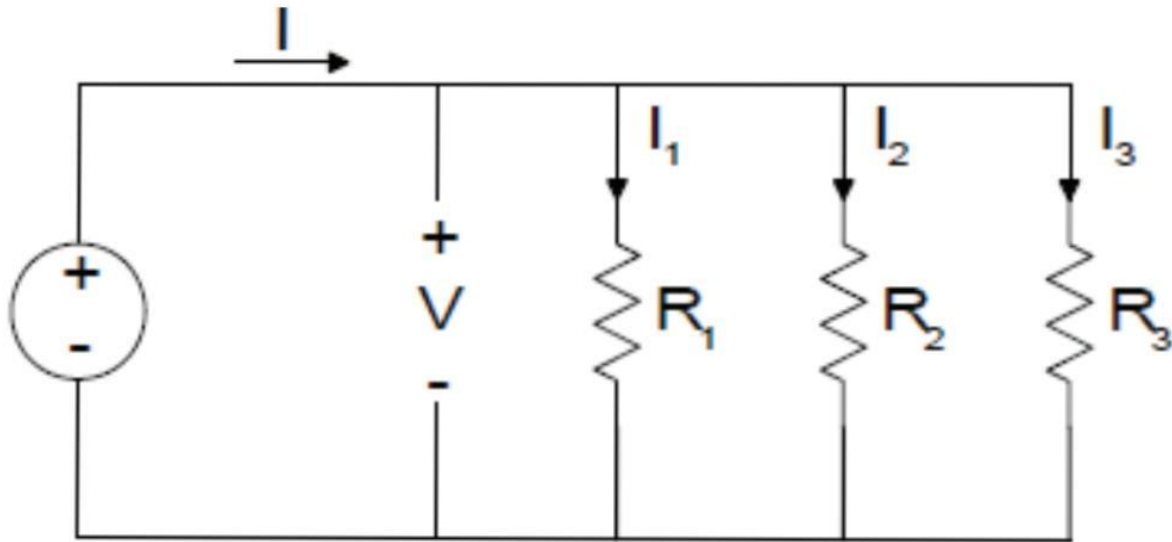


Figure 2b: Parallel combination of resistors.

	Resistance Value	Tolerance
	$22 \cdot 10^2$	$\pm 5\%$
	$56 \cdot 10^4$	$\pm 10\%$
	$47 \cdot 10^3$	$\pm 10\%$
	$10 \cdot 10$	$\pm 5\%$