

179. If specific resistance of a potentiometer wire is $10^{-7} \Omega\text{m}$, the current flow through it is 0.1 A and the cross-sectional area of wire is 10^{-6}m^2 , then potential gradient will be

- (1) 10^{-2}V m^{-1} (2) 10^{-4}V m^{-1}
(3) 10^{-6}V m^{-1} (4) 10^{-8}V m^{-1}

180. In a metre-bridge, the balancing length from the left end when standard resistance of 1Ω is in right gap is found to be 20 cm. The value of unknown resistance is

- (1) 0.25Ω (2) 0.4Ω
(3) 0.5Ω (4) 4Ω



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