

18 A car battery of e.m.f. 12 V and internal resistance $0.20\ \Omega$ is connected to a load of $4.0\ \Omega$. If the potential difference across the load is 10 V, what is the power lost in the connecting wires?

A 3.0 W

B 3.8 W

C 4.2 W

D 6.0 W