

hhh.schaums.26.34_26.41

Homework: 26: 34, 36, 37, 40, 41

26.34 (a) Terminal voltage = $Emf - IR$

(b) When it is being charged $V = Emf + IR$

26.36 There is a 6 V drop (notice that the short leg or negative side is on the right). Then there is a drop of 3.0 amps • 2.0 ohms. Then there is 9.0 V gain and finally a voltage drop of 3.0 A • 0.70 ohms

26.37 There is a drop of 0.7 ohms times 3.0 amps, then a drop of 9 V, then a drop of 3 A • 2 ohms then a gain of 6 V. You do the math

26.40 On page find the formula for resistivity in terms of length L , area A (which must be in m^2) and resistivity ρ (which you should know the units of).

26.41 Find the cross-sectional area of the wire and then use the formula for resistance from 26.40.