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7th Edition by Umans

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PROBLEM SOLUTIONS: Chapter 1

Problem 1-1

Part (a):

$$R_c = \frac{l_c}{\mu_0 \mu_r A_c} = 0 \text{ A/Wb}$$

$$\mu_r = \mu_r \mu_0 A_c$$

$$R_g = \frac{l_g}{\mu_0 \mu_r A_g} = 5.457 \times 10^{-6} \text{ A/Wb } \mu_0 A_c$$

Part (b):

$$\Phi = \frac{NI}{R_g} = 2.437 \times 10^{-3} \text{ Wb } \mu_0 A_c$$

Part (c):

$$\lambda = N\Phi = 2.315 \times 10^{-3} \text{ Wb}$$

Part (d):

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B Lingard



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