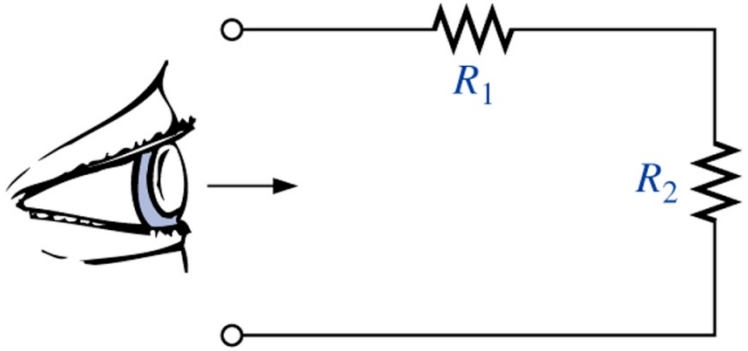
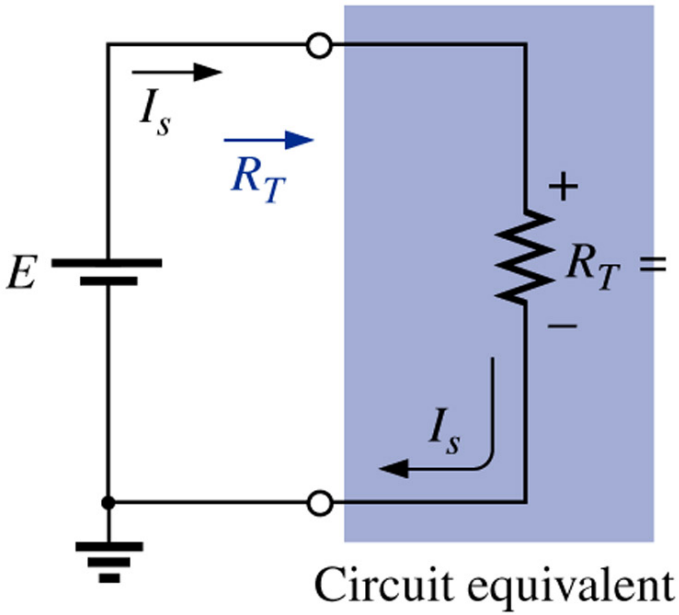
Series Resistance



What is the resistance "seen" looking into the series combination of R1 and R2?



Circuit equivalent

RT is the equivalent resistance seen by the source "E"

Series Resistance – Breakout #1

- The equivalent resistance of a series circuit with four resistors is 138 k-ohms. Find R_4 if:
  - R_1 = 56 k-ohms
  - R_2 = 22 k-ohms
  - R_3 = 33 k-ohms

Series Circuit Analysis – Breakout #2

- In the circuit shown below, if V_{R2} = 878.0 mV, calculate the following:
  - (a) I
  - (b) R_T
  - (c) R4
  - (d) The power delivered by the source