

CHAPTER OVERVIEW

20: Electric Current, Resistance, and Ohm's Law

20.0: Prelude to Electric Current, Resistance, and Ohm's Law

20.1: Current

20.2: Ohm's Law - Resistance and Simple Circuits

20.3: Resistance and Resistivity

20.4: 20.4 Electric Power and Energy

20.5: Alternating Current versus Direct Current

20.6: Electric Hazards and the Human Body

20.7: Nerve Conduction—Electrocardiograms

20.E: Heat and Heat Transfer Methods (Exercise)

Thumbnail: Electrons flowing in a metal according to Drude model with electrons (shown here in blue) constantly bouncing among heavier, stationary crystal ions (shown in red). (CC-BY-SA 3.0, [Rafaelgarcia](#)).

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