

## CHAPTER OVERVIEW

### 10: Alternating-Current Circuits

In this chapter, we use Kirchhoff's laws to analyze four simple circuits in which ac flows. We have discussed the use of the resistor, capacitor, and inductor in circuits with batteries. These components are also part of ac circuits. However, because ac is required, the constant source of emf supplied by a battery is replaced by an ac voltage source, which produces an oscillating emf.

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[10.2: AC Sources](#)

[10.3: Simple AC Circuits](#)

[10.4: RLC Series Circuits with AC](#)

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[10.6: Resonance in an AC Circuit](#)

[10.7: Transformers](#)

[10.8: Alternating-Current Circuits \(Exercise\)](#)

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