

# CHAPTER 16 OSCILLATORS

## 16-1 THE OSCILLATOR

- **Oscillators** are electronic circuits that generate an output signal without the necessity of an input signal.
- It produces a periodic waveform on its output **with only the DC supply voltage as an input**.
- The output voltage can be either sinusoidal or nonsinusoidal, depending on the type of oscillator.
- Different types of oscillators produce various types of outputs including sine waves, square waves, triangular waves, and sawtooth waves.
- A basic oscillator is shown in Figure 1.

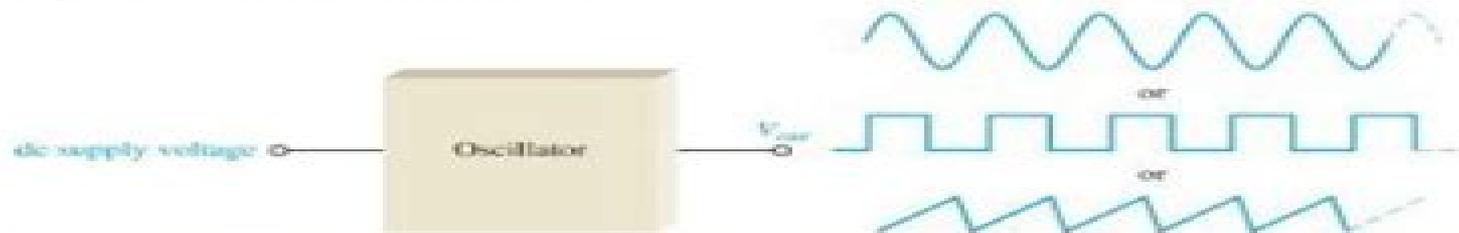


Figure 1 The basic oscillator concept showing three common types of output wave-forms: sine wave, square wave, and sawtooth.

- Oscillators can be of 2 types.

### Feedback Oscillators

- One type of oscillator is the **feedback oscillator**, which returns a fraction of the output signal to the input with no net phase shift, resulting in a reinforcement of the output signal.
- After oscillations are started, the **loop gain is maintained at 1.0 to maintain oscillations**.
- A feedback oscillator consists of an **amplifier for gain** (either a discrete transistor or an op-amp) and a **positive feedback circuit** that produces phase shift and provides attenuation, as shown in Figure 2.

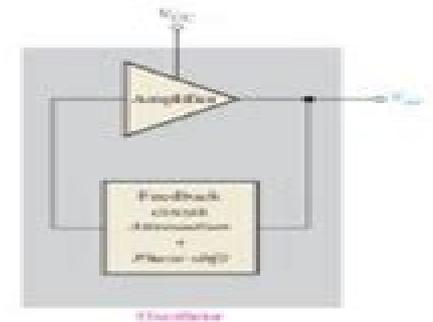


Figure 2 Basic elements of a feedback oscillator.

### Relaxation Oscillators

- A second type of oscillator is the **relaxation oscillator**.
- Instead of feedback, a relaxation oscillator uses an RC timing circuit to generate a waveform that is generally a square wave or other nonsinusoidal waveform.
- Typically, a relaxation oscillator uses a **Schmitt trigger** or other device that changes states to alternately charge and discharge a capacitor through a resistor.
- Relaxation oscillators are discussed in Section 16-5.

# Chapter Oscillators Hbcc

**J Ma**



## Chapter Oscillators Hbcc:

The book delves into Chapter Oscillators Hbcc. Chapter Oscillators Hbcc is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Chapter Oscillators Hbcc, encompassing both the fundamentals and more intricate discussions.

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