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## EXPERIMENT 3

### Half-Wave and Full-Wave Rectification

#### Objective

To calculate, compare, draw, and measure the DC output voltages of half-wave and full-wave rectifier circuits.

#### Tools and Equipments Required

DMM (Digital Multi Meter)	
DC Power Supply	
Function Generator	
2.2 k $\Omega$	x 3
Silicon Diode	x 4

#### Theory and Descriptions

The primary function of half-wave and full-wave rectification systems is to establish a DC level from a sinusoidal input signal that has zero average (DC) level.

The half-wave voltage signal of Fig.2.1, normally established by a network with a single diode, has an average or equivalent DC voltage level equal to 31.8% of the peak voltage  $V_m$ .

That is  $V_{dc} = 0.318 \cdot V_{peak}$  volts (half-wave) eq.2.1

The full-wave rectifier signal of Fig.2.1 has twice the average or DC level of the half-wave signal, or 63.6% of the peak value  $V_m$ .

That is  $V_{dc} = 0.636 \cdot V_{peak}$  volts (full-wave) eq.2.2

For large sinusoidal inputs ( $V_m \gg V_T$ ) the forward-biased transition voltage  $V_T$  of a diode can be ignored. However, for situations when the peak value of the sinusoidal signal is not that much greater than  $V_T$ ,  $V_T$  can have a noticeable effect on  $V_{DC}$ .

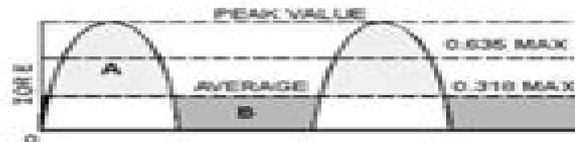


Figure 2.1 half- and full-wave rectified signal

# Experiment 3 Half Wave And Full Wave Rectification

**Shasha Hu**



## **Experiment 3 Half Wave And Full Wave Rectification:**

## Decoding **Experiment 3 Half Wave And Full Wave Rectification**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Experiment 3 Half Wave And Full Wave Rectification**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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