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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  $V_{DC}$ .

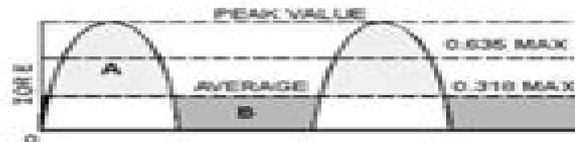


Figure 2.1 half- and full-wave rectified signal

# Experiment 3 Half Wave And Full Wave Rectification

**PT Brinkman**



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

## **Experiment 3 Half Wave And Full Wave Rectification** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has are more evident than ever. They have the capability to inspire, provoke, and ignite change. Such may be the essence of the book **Experiment 3 Half Wave And Full Wave Rectification**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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