

# RECTIFIERS

## 1. Pre-Lab Work

1) Using Proteus, design and simulate:

- (a) Half-wave rectifier circuit without filter capacitor (See Figure 4)
- (b) Half-wave rectifier circuit with a filter capacitor (See Figure 5)
- (c) Bridge rectifier circuit without filter capacitor (See Figure 6)
- (d) Bridge rectifier circuit with a filter capacitor (See Figure 7).

### Properties:

**Input signal:**  $V_{in}(t) = V_p \cdot \sin(100\pi t)$ . RMS voltage of the input:  $V_{RMS} = 9V$ .

Diode: 1N4001, R: 1k $\Omega$ , C: 220 $\mu F$

Then calculate;

- The average voltage  $V_{avg}$  (DC) for **(a) and (c)**,
- The RMS voltage ( $V_{RMS}$ ) of the output voltages  $V_{out}(t)$  for **(a) and (c)**.

To measure output voltage, use analogue graph and observe 3 or 4 periods of the output signal. Use "VSINE" component for input voltage source. (Component mode > Pick devices > Vsine)

### *Hint:*

Average value of a periodic signal:

$$V_{DC} = \frac{1}{T} \int_0^T V(t) \cdot dt$$

RMS value of a periodic signal:

$$V_{RMS} = \sqrt{\frac{1}{T} \int_0^T V(t)^2 \cdot dt}$$

where  $T$  is the period of the signal.

# Lab Manual For Rectifiers With Filter

**R Sanford**



## **Lab Manual For Rectifiers With Filter:**

## Unveiling the Power of Verbal Beauty: An Mental Sojourn through **Lab Manual For Rectifiers With Filter**

In some sort of inundated with monitors and the cacophony of quick communication, the profound energy and emotional resonance of verbal art frequently disappear into obscurity, eclipsed by the constant barrage of sound and distractions. Yet, set within the lyrical pages of **Lab Manual For Rectifiers With Filter**, a charming work of fictional brilliance that pulses with raw emotions, lies an wonderful trip waiting to be embarked upon. Penned with a virtuoso wordsmith, that magical opus manuals readers on a psychological odyssey, lightly revealing the latent potential and profound influence embedded within the delicate internet of language. Within the heart-wrenching expanse of the evocative evaluation, we shall embark upon an introspective exploration of the book is central styles, dissect their captivating writing style, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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