

This Book



Electronic Devices
and Integrated
Circuits

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4.9. SOLVED PROBLEMS

1. Determine the peak and rms voltages on the secondary of a transformer connected across a bridge rectifier to provide a no load dc voltage of 9 V. If the secondary winding resistance is 3 Ω and dynamic resistance of each diode is 1 Ω , determine the dc output across a load resistance of 100 Ω and 1 K. Also determine the regulation.

Solution:

$$r_s = 3 \Omega, r_d = 1 \Omega, R_L = 100 \Omega, V_{dc} = \frac{2V_m}{\pi}$$

$$V_m = \frac{9\pi}{2} = 14.14 \text{ V}$$

$$V_{rms} = \frac{V_m}{\sqrt{2}} = \frac{14.14}{1.414} = 10 \text{ V}$$

$$I_m = \frac{V_m}{r_s + 2r_d + R_L} = \frac{14.14}{100} = 0.135 \text{ A}$$

$$I_{dc} = \frac{2I_m}{\pi} = \frac{2 \times 0.135}{\pi} = 86.45 \text{ mA}$$

$$V_{dc} = I_{dc}R_L = 86.56 \times 10^{-3} \times 100 = 8.66 \text{ V}$$

$$V_{dc}(\text{full load}) = \frac{2V_m}{\pi} \left(1 - \frac{r_s + 2r_d}{r_s + 2r_d + R_L} \right)$$

$$= 8.57 \text{ V} = 8.6 \text{ V}$$

$$\text{Regulation} = \frac{9 - 8.6}{8.6} = 4.6\%$$

2. A 220 V, 60 Hz voltage is applied to a centre tapped step-down transformer of 22: 1 with a load of 1 K connected across the output of two-diode full-wave rectifier. Assume diodes to be ideal. If the resistance of half-secondary winding is 0.5 Ω , determine the (a) peak, rms and dc voltages, (b) peak, rms and dc currents, (c) dc power delivered to the load, (d) VA rating of the transformer secondary, (e) ac input to transformer assuming it to be 80% efficient, (f) ac ripple voltage across the load and its frequency, (g) How much is the PIV of each diode if the circuit is changed to a bridge rectifier using the full secondary winding of the same transformer? (h) How much are the peak, rms, dc voltages?

Solution:

$$(a) V_m (\text{between full secondary}) = 10\sqrt{2} = 14.14 \text{ V}$$

$$V_{rms} (\text{full secondary}) = 10 \text{ V}, V_m (\text{half secondary}) = 7.07 \text{ V}$$

Two Thousand Solved Problems In Electronics

D Kirk



Two Thousand Solved Problems In Electronics:

Two Thousand Solved Problems In Electronics Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Two Thousand Solved Problems In Electronics**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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