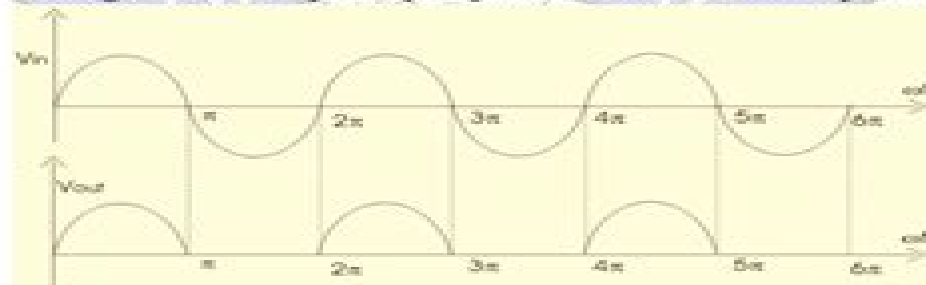


When the sinusoidal voltage across the secondary winding of the transformer goes positive, the diode is forward-biased and conducts current through the load resistor R_L . Thus, the output voltage across R_L has the same shape as the positive half-cycle of the input voltage.

When the secondary winding voltage goes negative during the second half of its cycle, the diode is reverse-biased. There is no current in this case, so the voltage across the load resistor is 0V. The net result is that only the positive half-cycles of the AC input voltage on the secondary winding appear across the load as shown in Fig.2. Since the output does not change polarity, it is a pulsating DC voltage with frequency equals to that of the input AC voltage.



Thus the output voltage (V_o) developed across load resistance R_L is a series of positive half cycles of alternating voltage, with intervening very small constant negative voltage levels. It is obvious from the figure that the output is not a steady dc, but only a pulsating dc wave. To make the output wave smooth and useful in a DC power supply, we have to use a filter across the load. Since only half-cycles of the input wave are used, it is called a *half wave rectifier*.

Half Wave Rectifier with Capacitor Filter

The output of half wave rectifier is not a constant DC voltage. You can observe from the output diagram that it is a pulsating dc voltage with ac ripples. In real life applications, we need a power supply with smooth waveforms. In other words, we desire a DC power supply with the constant

Experiment Manual Full Wave Rectifier With Filter

Harry Alex Romanowitz



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Laboratory Manual for Introductory Electronics Experiments L. K. Maheshwari, M. M. S. Anand, 1979 **Analog**

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(VOLUME 2) NAVAS, K. A., 2018-10-01 This book is evolved from the experience of the author who taught all lab courses in his three decades of teaching in various universities in India. The objective of this lab manual is to provide information to undergraduate students to practice experiments in electronics laboratories. This book covers 118 experiments for linear analog integrated circuits lab, communication engineering lab, power electronics lab, microwave lab and optical communication lab. The experiments described in this book enable the students to learn various analog integrated circuits and their functions, analog and digital communication techniques, power electronics circuits and their functions, microwave equipment and components, optical communication devices. This book is intended for the B.Tech students of Electronics and Communication Engineering, Electrical and Electronics Engineering, Biomedical Electronics, Instrumentation and Control, Computer Science and Applied Electronics. It is designed not only for engineering students but can also be used by B.Sc., M.Sc., Physics and Diploma students. **KEY FEATURES** Contains aim, components and equipment required, theory, circuit diagram, pin outs of active devices, design tables, graphs, alternate circuits and troubleshooting techniques for each experiment. Includes viva voce and examination questions with their answers. Provides exposure on various devices. **TARGET AUDIENCE** B.Tech, Electronics and Communication Engineering, Electrical and Electronics Engineering, Biomedical Electronics, Instrumentation and Control, Computer Science and Applied Electronics, B.Sc., M.Sc., Physics, Diploma Engineering. *Experiment Manual for Electronic Demonstration ..* Sol D. Prenskey, 1946 AF Manual United States. Department of the Air Force, 1964

Laboratory Manual for Microelectronic Circuits Kenneth C. Smith, Adel S. Sedra, 1991 This manual contains approximately 35 experiments. It follows the organization of the text and includes experiments for all major topics. To help instructors choose and prepare for the experiments, this manual identifies the core experiments all students should perform and includes manufacturers' data sheets for the most common components. **Basic Electronics Engineering** Satya Sai Srikant, Prakash Kumar Chaturvedi, 2020-04-27 This book is primarily designed to serve as a textbook for undergraduate

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