

UJT RELAXATION OSCILLATOR

OBJECTIVES:

To study, observe and plot the output waveforms of a UJT relaxation oscillator circuit that includes measurement of the peak voltage and output frequency of the circuit.

DISCUSSION:

The relaxation oscillator is the main circuit of most UJT timers and oscillators. When power is applied in this circuit, capacitor C_E charges through R_E . When the voltage across C_E reaches the peak voltage, the UJT fires and a relatively large amount of current flows through R_1 . As a result of this current, a voltage pulse is developed across R_1 . When the capacitor has fully discharged, the voltage across it decreases and the UJT turns off again. This cycle of capacitor charge and discharge is repeated as long as power is supplied to the circuit. The oscillation frequency of this circuit is approximated by,

$$f = 1/(R_E C_E)$$

In the formula above, the frequency of oscillation is dependent on the values of R_E and C_E . If we increase their values, the frequency of oscillation decreases. If we decrease their values, the frequency increases.

In general, the firing behavior of UJTs is more stable compared to SCRs. This means that UJT is less dependent on temperature as compared to SCRs, but still the effect of higher operating temperature is to decrease the peak voltage, V_p and increase the output frequency.

MATERIALS:

UJT 2N6027	Voltmeter	Ammeter	Oscilloscope
Rated Resistors	Rated Capacitor	DC Power Supplies	

PROCEDURE:

1. Connect the circuit shown in *Figure 4-1*.
2. Measure the peak voltage V_p of the circuit. Connect a voltmeter across C_E and observe the charging and discharging of the capacitor. The voltmeter reading will be fluctuating from a high reading to a low reading. Observe closely the movement of the meter pointer and measure the maximum voltage reached by the capacitor. Record your measurement below:

$$V_p = \underline{\underline{2.655}} \text{ V}$$

Ujt Relaxation Oscillator Lab Manual

Charles Erwin Cohn



Ujt Relaxation Oscillator Lab Manual:

ELECTRONICS LAB MANUAL (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 BSc MSc 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 BSc MSc Physics Diploma Engineering Laboratory Manual for Electronic Devices and Circuits David A. Bell, 2001 This lab manual accompanies Electronic Devices and Circuits 4 e **Industrial Electronics: A Text-lab Manual** Paul B. Zbar, 1972

Basic Electronics Paul B. Zbar, Albert Paul Malvino, 1983 Basic Electronics Paul B. Zbar, Albert Paul Malvino, Michael A. Miller, 1990 *Stabilized Relaxation Oscillator* Charles Erwin Cohn, 1962 An unsynchronized thyatron relaxation oscillator circuit was developed whose rate is stabilized through the use of a Schmitt discriminator to determine the thyatron firing point Drift and jitter in the period are less than 0.1% after warm up

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