



SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution)

COIMBATORE-35

Accredited by NBA-AICTE and Accredited by NAAC – UGC with A++ Grade

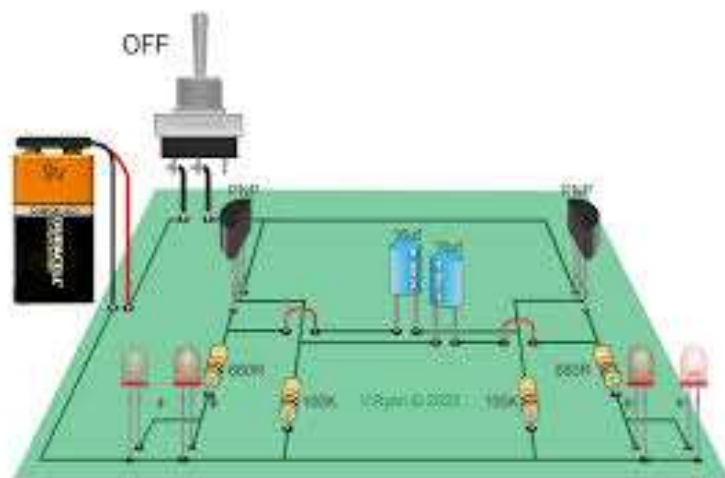
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23EET104 / ANALOG ELECTRONICS CIRCUITS I YEAR / II SEMESTER

UNIT-IV: MULTIVIBRATOR

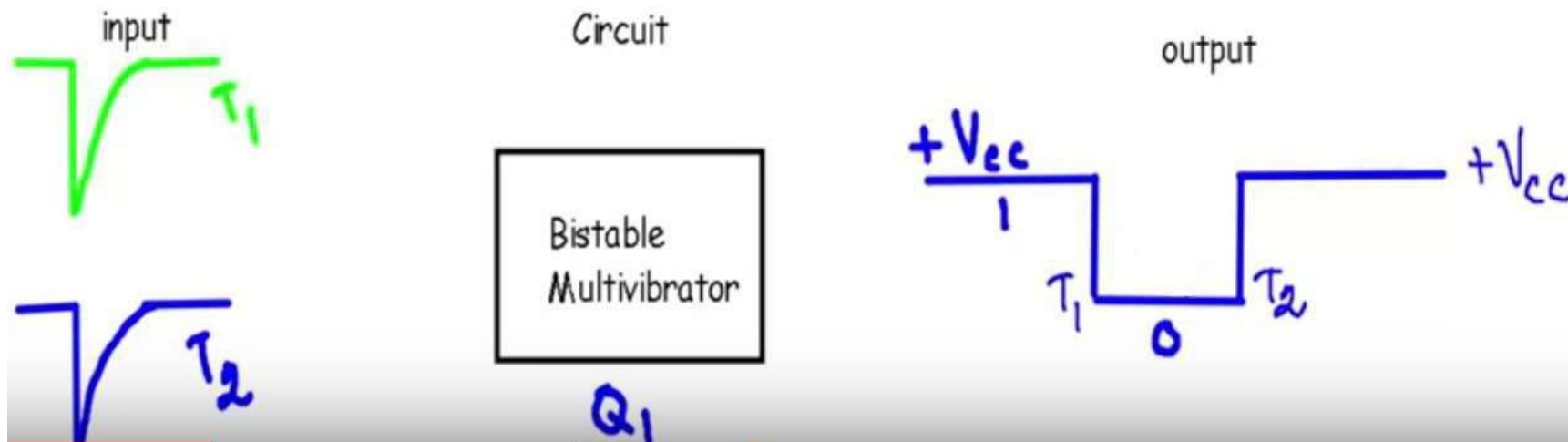
BI-STABLE MV



BI-STABLE MULTIVIBRATOR

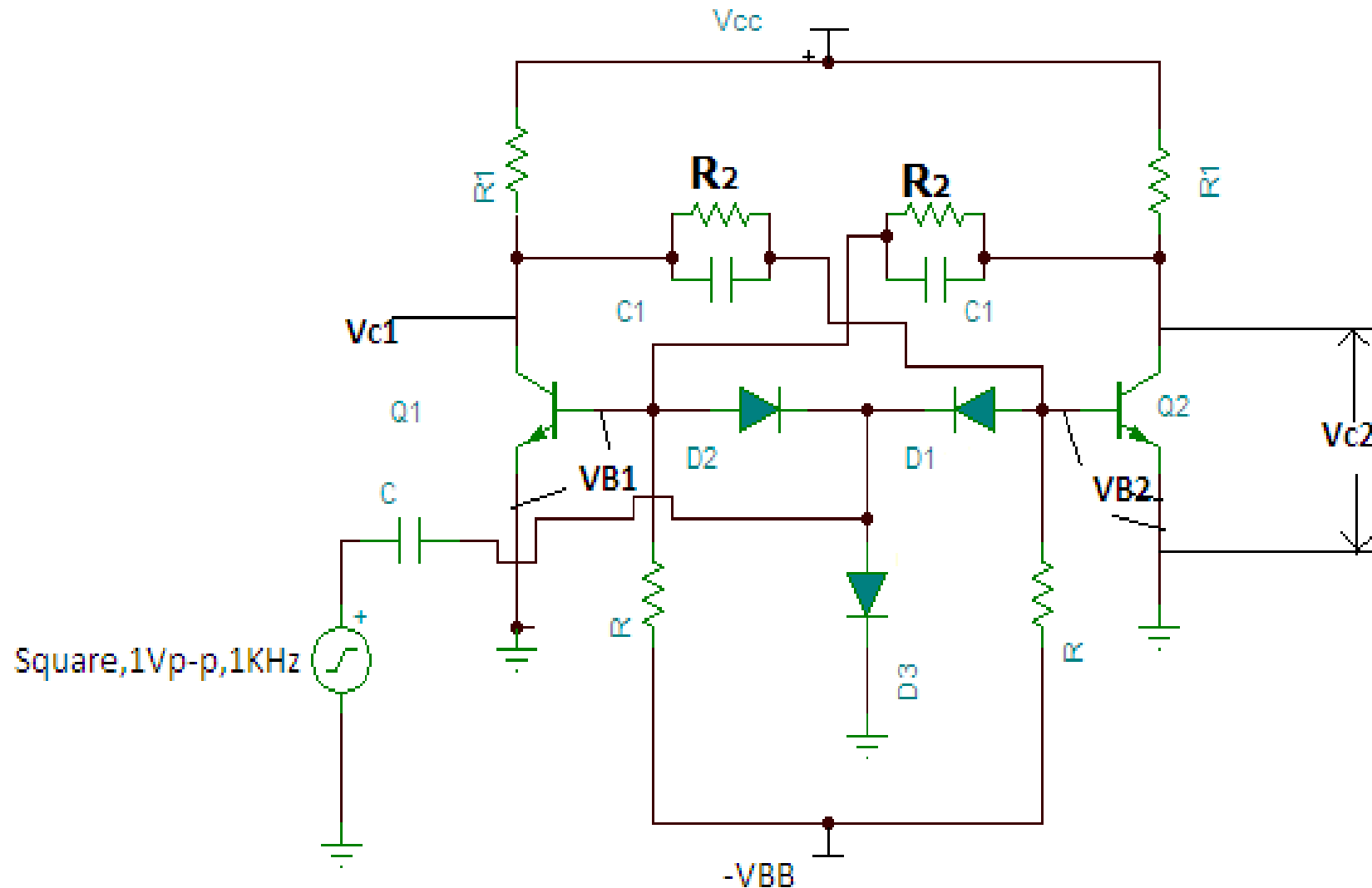
A multivibrator that has two absolute stable state and can stay in one of two states indefinitely is known as Bi-stable multivibrator.

It changes its state when it gets triggering pulse and stay in that state until it gets another triggering pulse.





BI-STABLE MULTIVIBRATOR



BI-STABLE MULTIVIBRATOR



When VCC is applied, one transistor will start conducting slightly more than that of the other.

Let Q2 be ON and Q1 be OFF.

When Q2 is ON, The potential at the collector of Q2 decreases, which in turn will decrease the potential at the base of Q1 due to potential divider action of R1 and R2.

The potential at the collector of Q1 increases which in turn further increases the base to emitter voltage at the base of Q2.

The voltage at the collector of Q2 further decreases, which in turn further reduces the voltage at the base of Q1. This action will continue till Q2 becomes fully saturated and Q1 becomes fully cutoff.

Thus the stable state of binary is such that one device remains in cut-off and other device remains at saturation.

It will be in that state until the triggering pulse is applied to it. It has two stable states. For every transition of states triggering is required.

At a time only one device will be conducting.



BI-STABLE -APPLICATION

- Digital operations such as **counting and storing binary information.**
- Generation and processing of **pulse-type waveforms.**
- It is widely used in **digital logic and computer memory**



CAREER POWER
ELECTRONICS EDUCATION

INTERNAL MEMORY



RANDOM ACCESS MEMORY



READ ONLY MEMORY

Computer Memory And Its Types

EXTERNAL MEMORY



Memory Card Reader



USB Flash Memory



Audio Device



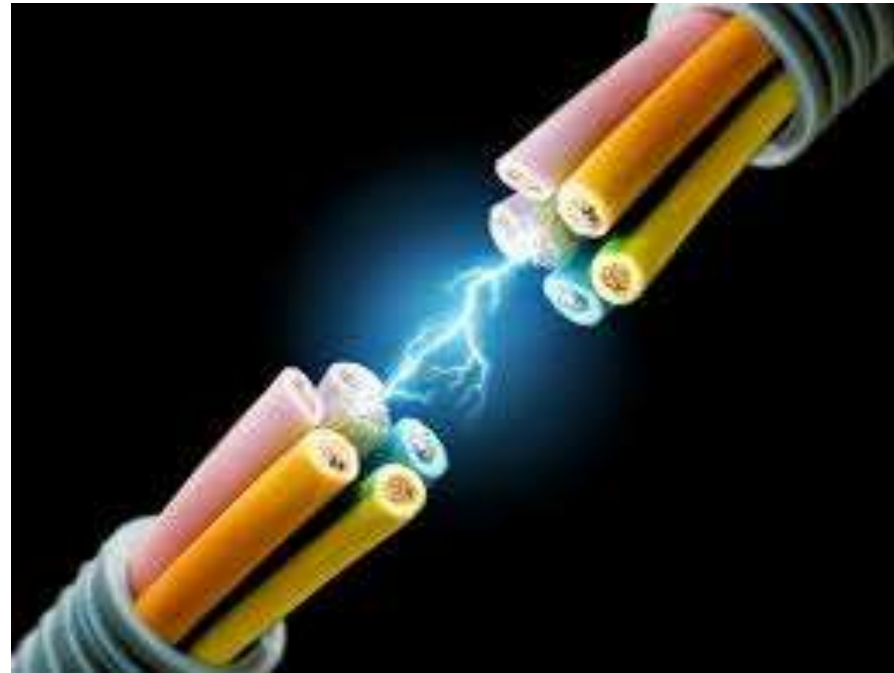
External Optical Drive



3.5" Disk



RECAP....



...THANK YOU

