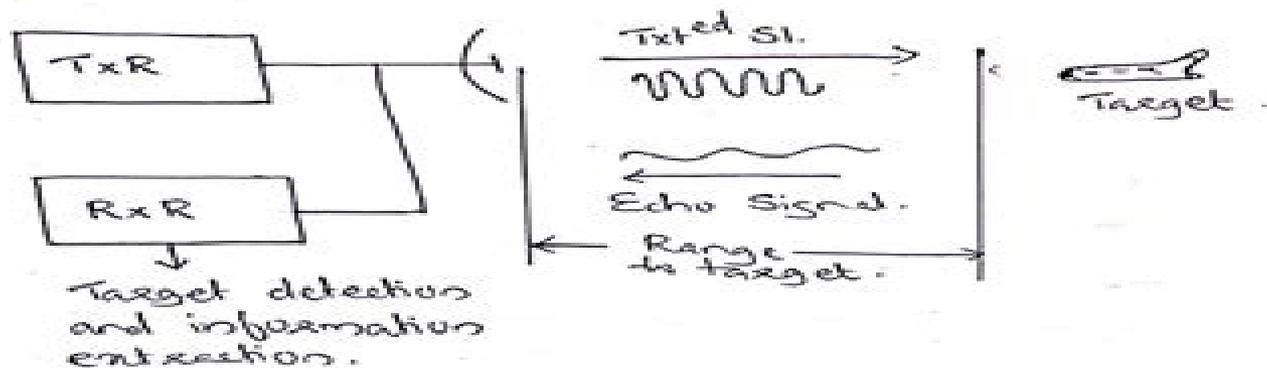


Radar (Radio detection and ranging) is an electromagnetic system for the detection and location of reflecting objects such as aircraft, ships, space craft, vehicles, people and natural environment.

### Basic Principle of Radar.



### Range to a Target.

The range to a target is determined by the time  $T_R$  it takes the radar signal to travel to the target and back. EM energy in free space travels with a speed of  $c = 3 \times 10^8$  m/s.  $\therefore$  The time for a signal to travel to the target located at a range  $R$  and return back to the radar is  $2R/c$ .

$$\therefore \text{Range, } R = \frac{c T_R}{2} \quad \therefore T_R = \frac{2R}{c}$$

### Maximum Unambiguous Range.

\* second time around echoes / multiple time around echoes.

The range beyond which targets appear as second time around echoes is the maximum

# Microwave And Radar Engineering Notes

**Emilie Sanchez**



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