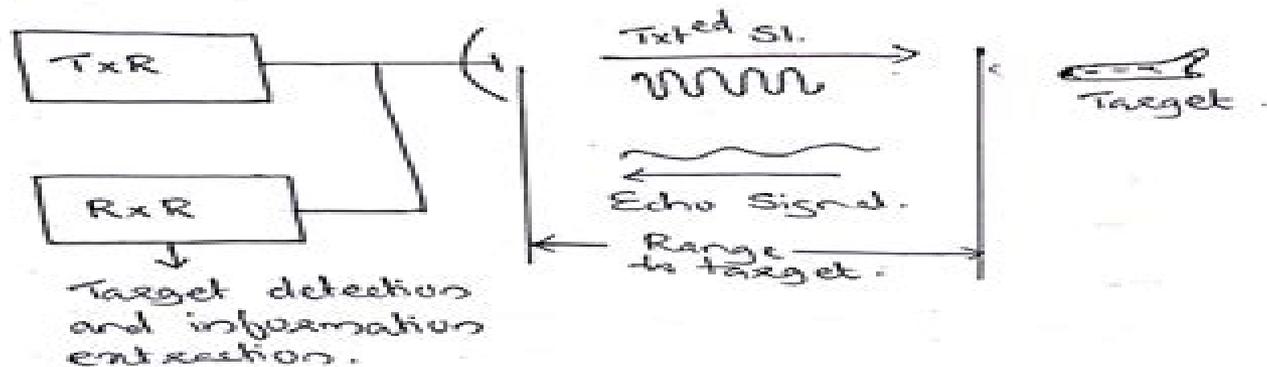


Radar (Radio detection and ranging) is an electromagnetic system for the detection and location of reflecting objects such as aircraft, ships, space craft, vehicles, people and natural environment.

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

Annelies Wilder-Smith



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