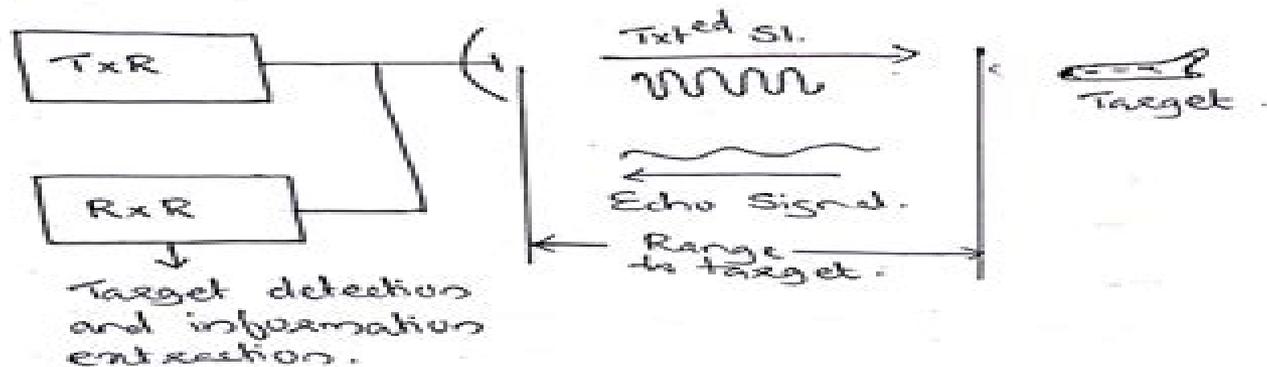


Radar (Radio detection and ranging) is an electromagnetic system for the detection and location of reflecting objects such as aircraft, ships, space craft, vehicles, people and natural environment.

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

Guillaume Favre



Microwave And Radar Engineering Notes:

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In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Microwave And Radar Engineering Notes** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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