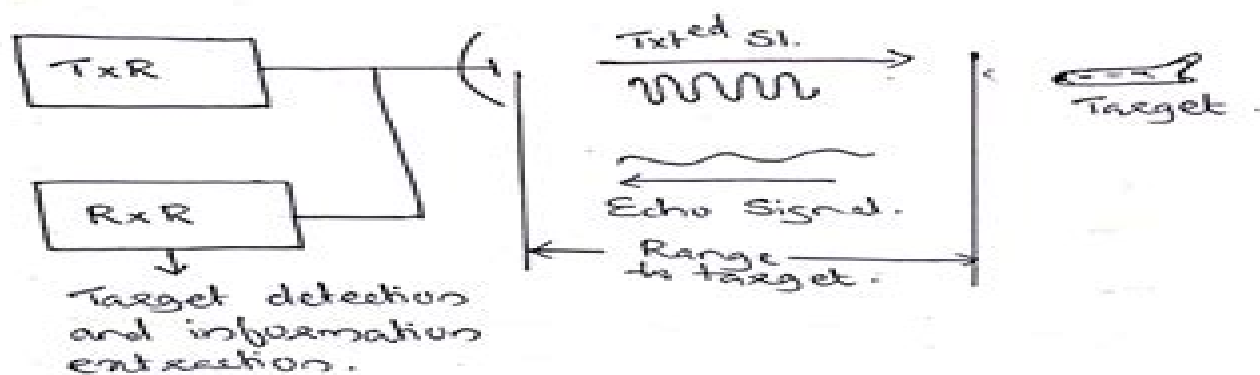


Radar (Radio detection and ranging) is an electromagnetic system for the detection and location of reflecting objects such as aircraft, ships, space craft, vehicles, people and natural environment.

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 $c = 3 \times 10^8 \text{ m/s}$. \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

Lauren Gardner



Microwave And Radar Engineering Notes:

Microwave, Radar & RF Engineering Prakash Kumar Chaturvedi, 2018-06-20 This is a textbook for upper undergraduate and graduate courses on microwave engineering written in a student friendly manner with many diagrams and illustrations. It works towards developing a foundation for further study and research in the field. The book begins with a brief history of microwaves and introduction to core concepts of EM waves and wave guides. It covers equipment and concepts involved in the study and measurement of microwaves. The book also discusses microwave propagation in space, microwave antennae, and all aspects of RADAR. The book provides core pedagogy with chapter objectives, summaries, solved examples, and end of chapter exercises. The book also includes a bonus chapter which serves as a lab manual with 15 simple experiments detailed with proper circuits, precautions, sample readings, and quiz viva questions for each experiment. This book will be useful to instructors and students alike.

Hochgenaue radarbasierte Abstandsmessung mit gefuehrter Wellenausbreitung Ayhan, Serdal, 2017-02-02 In this work a new measurement approach for a radar based high accuracy distance measurement with guided wave propagation is presented. The reached distance accuracy is in the single digit range. The main influencing factors on the achievable accuracy are characterized with the developed methods and techniques to allow a systematic design and optimization of the system in advance.

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