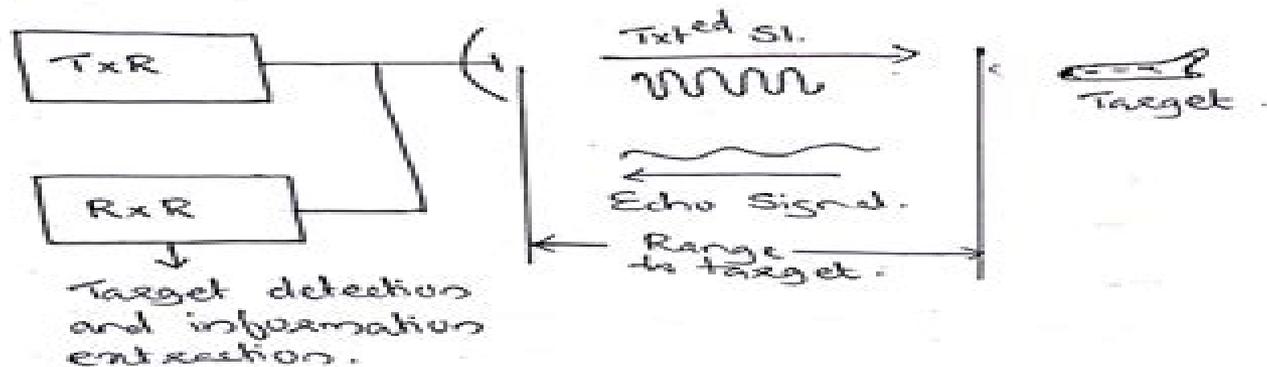


Radar (Radio detection and ranging) is an electromagnetic system for the detection and location of reflecting objects such as aircraft, ships, space craft, vehicles, people and natural environment.

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

Rosina Ehmman



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Table of Contents Microwave And Radar Engineering Notes

1. Understanding the eBook Microwave And Radar Engineering Notes
 - The Rise of Digital Reading Microwave And Radar Engineering Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Microwave And Radar Engineering Notes
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Microwave And Radar Engineering Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Microwave And Radar Engineering Notes
 - Personalized Recommendations
 - Microwave And Radar Engineering Notes User Reviews and Ratings
 - Microwave And Radar Engineering Notes and Bestseller Lists
5. Accessing Microwave And Radar Engineering Notes Free and Paid eBooks
 - Microwave And Radar Engineering Notes Public Domain eBooks
 - Microwave And Radar Engineering Notes eBook Subscription Services
 - Microwave And Radar Engineering Notes Budget-Friendly Options

6. Navigating Microwave And Radar Engineering Notes eBook Formats
 - ePub, PDF, MOBI, and More
 - Microwave And Radar Engineering Notes Compatibility with Devices
 - Microwave And Radar Engineering Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Microwave And Radar Engineering Notes
 - Highlighting and Note-Taking Microwave And Radar Engineering Notes
 - Interactive Elements Microwave And Radar Engineering Notes
8. Staying Engaged with Microwave And Radar Engineering Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Microwave And Radar Engineering Notes
9. Balancing eBooks and Physical Books Microwave And Radar Engineering Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Microwave And Radar Engineering Notes
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Microwave And Radar Engineering Notes
 - Setting Reading Goals Microwave And Radar Engineering Notes
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Microwave And Radar Engineering Notes
 - Fact-Checking eBook Content of Microwave And Radar Engineering Notes
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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