



# Antenna Functions and the Radar Equation



- “Means for radiating or receiving radio waves”<sup>\*\*</sup>
  - A radiated electromagnetic wave consists of electric and magnetic fields which jointly satisfy Maxwell’s Equations
- Direct microwave radiation in desired directions, suppress in others
- Designed for optimum **gain (directivity)** and minimum **loss** of energy during transmit or receive

Track  
Radar  
Equation

$$S / N = \frac{P_t G^2 \lambda^2 \sigma}{(4 \pi)^3 R^4 k T_s B_n L}$$

**G = Gain**

**A<sub>e</sub> = Effective Area**

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Equation

$$S / N = \frac{P_{av} A_e t_s \sigma}{4 \pi \Omega R^4 k T_s L}$$

**T<sub>s</sub> = System Noise  
Temperature**

**L = Losses**

} Radar  
Equation  
Lecture

<sup>\*\*</sup> IEEE Standard Definitions of Terms for Antennas (IEEE STD 145-1983)

# Radar Systems Engineering Lecture 9 Antennas

**Rosina Ehmann**



## **Radar Systems Engineering Lecture 9 Antennas:**

## The Enigmatic Realm of **Radar Systems Engineering Lecture 9 Antennas**: Unleashing the Language is Inner Magic

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 in short supply of extraordinary. Within the captivating pages of **Radar Systems Engineering Lecture 9 Antennas** 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 effect on the hearts and minds of people who partake in its reading experience.

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