



Antenna Functions and the Radar Equation



- “Means for radiating or receiving radio waves”^{**}
 - 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_e = Effective Area

} This
Lecture

Search
Radar
Equation

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

**T_s = System Noise
Temperature**

L = Losses

} Radar
Equation
Lecture

^{**} IEEE Standard Definitions of Terms for Antennas (IEEE STD 145-1983)

Radar Systems Engineering Lecture 9 Antennas

PT Brinkman



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