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Part 1 RADAR

*Range equation*

*By Engineering*

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**Radar Technology**

**to Show You the**

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Way Guadalcanal  
Campaign - 1st  
Savo Island (IJN  
1 : 0 USN)

Lecture:

Mathematics of  
Big Data and  
Machine Learning  
The Real World  
Uses of  
Imaginary  
Numbers Radar

~~Tutorial~~

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Hackaday

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Superconductor  
Jeremy Hong :  
Modern Radar  
Electronic  
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Warfare; a Brief  
Overview of  
Weaponized RF  
Design

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RADAR Range  
Equation - RADAR  
Equation -  
Derivation of  
RADAR Range  
Equation - Range  
of RADAR



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*Radar Antennas;*

*Part 1 Lec 28:*

~~RADAR~~

~~fundamentals -~~

~~II HOW IT WORKS:~~

Radar Systems

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~~AESA radar~~  
~~technology~~  
~~animation~~ +  
~~Thales Phased~~  
~~Array Antennas~~  
~~Duty cycle,~~  
~~frequency and~~  
~~pulse width~~ — an  
~~explanation~~ What  
is AESA and PESA  
Radar and  
difference  
between a PESA  
and an AESA

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radar?

Radar Plotting  
for Collision  
Avoidance

**Aircraft Radar**

**Cross-Sections**

Build a Coffee-  
Can RadarHow  
~~does Doppler~~  
~~radar work~~  
~~Stealth - How~~  
~~Does it Work?~~  
~~(Northrop B-2~~  
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**Introduction to  
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Lecture 2 -  
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**Part 2** *A Short  
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Introduction to  
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The Radar  
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*Build Your Own*

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*Data Lec 27:*

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What Would

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Today? | A For

Global War | Modern Radar

~~SparkRadar Cross  
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Section :~~

~~Computational~~

~~Considerations~~

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extends that work to ensure applicability of radar equations to the design and analysis of modern radars.

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prediction  
detection range.

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The Radar Range  
Equation. radar  
range equation  
represents the  
physical  
dependences of  
the transmit



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power, which is the wave propagation up to the receiving of the echo signals. The power  $P_e$  returning to the receiving antenna is given by the radar equation, depending on the transmitted

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power  $P$ ,  $S$ , the  
slant range  $R$ ,  
and the  
reflecting  
characteristics  
of the aim  
(described as  
the radar cross-  
section  $\sigma$ ). At  
the known  
sensitivity of  
the radar  
receiver, the  
radar equation

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determines the  
achieved . . .

### Modern Radar

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Radar System

Analysis books,

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electronic warfare  
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for the maximum  
range at which a  
radar can  
achieve target  
detection under  
conditions of  
various  
interference  
sources, such as

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thermal noise,  
surface clutter,  
precipitation,  
chaff, and  
jamming.

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and modeling  
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Radar range  
equation.  $P_t$  =  
transmitter  
power.  $G_t$  = gain

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of the Equations For

transmitting  
antenna.  $A_r =$   
effective

aperture (area)  
of the receiving  
antenna; this  
can also be  
expressed as  $G_r$   
 $\lambda^2 / 4\pi$

$$\left\{ \frac{G_r \lambda^2}{4\pi} \right\} \dots$$

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Equations For

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*Wikipedia*

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