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To find the available energy ratio, the noise spectral density  $N_0$  (W/Hz), referred to a receiver connected directly to the antenna output port, is expressed as  $N_0 = k T_s W$  or  $N_0 = k T_s$  (1.8) where  $k = 1.38 \times 10^{-23}$  J/K is Boltzmann's constant;  $T_s$  = system noise temperature in kelvins (K) (see Chapter 6).

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equations (3) and (4) (4)  $S_e$  = power density at receiving place.  
 $P_r$  = reflected power [W]  $R_2$  = range aim - receiving antenna [m]  
At the radar antenna, the received power  $P_E$  is dependent on the power density at the receiving site  $s_e$  and the effective antenna aperture  $A_W$ .  $P_E = S_e \cdot A_W$ .

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Radar range equation.  $P_t$  = transmitter power.  $G_t$  = gain of the transmitting antenna.  $A_r$  = effective aperture (area) of the receiving antenna; this can also be expressed as  $G_r \lambda^2 / 4\pi$   
$$\{G_r \lambda^2 \over 4\pi}\}$$
 ...

## Radar - Wikipedia

Are you a radar engineer? If you are, then this book is for you. Author David K. Barton, has done an outstanding job of writing a book that ensures the applicability of radar equations to design and analyze modern radars; to identify what information on the radar and its environment is needed to predict detection range; and, to provide equations and data to improve the accuracy of range ...

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The standard form of Radar range equation is also called as simple form of Radar range equation. Now, let us derive the standard form of Radar range equation. We know that power density is nothing but the ratio of power and area. So, the power density,  $P_{di}$  at a distance,  $R$  from the Radar can be mathematically represented as –

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The maximum range of radar,  $R_{max}$  is the distance beyond which the target cannot be detected. It occurs when the received signal power,  $P_r$  = minimum detectable signal,  $S_{min}$ . Therefore,  $S_{min} = P_t G A_e / (4\pi)^2 R_{max}^4$ .  $R_{max} = [P_t G A_e / (4\pi)^2 S_{min}]^{1/4}$ . This is the fundamental form of radar range equation.

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Modern Radar Detection Theory provides a comprehensive

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