



# Electronic Warfare & Radar Systems Engineering Handbook

*Naval Air Warfare Center Weapons Division*

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Contents Mathematical Notation . Frequency Spectrum. Decibel (dB). Duty Cycle . Doppler Shift .  
Electronic Formulas . Missile and Electronic Equipment Designations. Radar Horizon / Line of Sight .  
Propagation Time / Resolution . Modulation. Transforms / Wavelets. Antennas- Antenna Introduction /  
Basics . Polarization. Radiation Patterns. Frequency / Phase Effects of Antennas . Antenna Near Field.  
Radiation Hazards. Active Electronically Scanned Arrays (Aesa) . Radar Equations Field Intensity and  
Power Density. Power Density . One-Way Radar Equation / Rf Propagation. Two-Way Radar Equation  
(Monostatic) . Alternate Two-Way Radar Equation . Two-Way Radar Equation (Bistatic) . Jamming to  
Signal (J/S) Ratio - Constant Power [Saturated] Jamming. Burn-Through / Crossover Range. Support  
Jamming . Jamming to Signal (J/S) Ratio - Constant Gain [Linear] Jamming . Radar Cross Section (Rcs) .  
Emission Control (Emcon) . Ew Jamming Techniques . Radar And Receiver Characteristics & Test- Rf  
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