



Essential Guide to Electronic Warfare and Radar Systems: NAVAIR Engineering Handbook, Doctrine Manual, Army EW Techniques Manual and Operations Plan, DARPA Breakthrough Technologies, Reports

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This is a print replica reproduction of numerous Defense Department documents, manuals, and reports covers the field of military electronic warfare and radar systems.

It includes the NAVAIR Electronic Warfare and Radar Systems Engineering Handbook updated through Rev 4 of 2012. This handbook is designed to aid electronic warfare and radar systems engineers in making general estimations regarding capabilities of systems. Contents include: ABBREVIATIONS and ACRONYMS * FUNDAMENTALS * Constants, Conversions, and Characters * Mathematical Notation * Frequency Spectrum * Decibel (dB) * Duty Cycle * Doppler Shift * Electronic Formulas * Missile and Electronic Equipment * 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 * 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 * Burn-Through / Crossover Range * Support Jamming * Jamming to Signal (J/S) Ratio * Radar Cross Section (RCS) * Emission Control (EMCON) * EW Jamming Techniques * RADAR AND RECEIVER CHARACTERISTICS * RF Atmospheric Absorption / Ducting * Receiver Sensitivity / Noise * Receiver Types and Characteristics * Radar Modes * General Radar Display Types * IFF - Identification - Friend or Foe * Receiver Tests * Signal Sorting and Direction Finding * MICROWAVE / RF COMPONENTS * Microwave Waveguides and Coaxial Cable * Voltage Standing Wave Ratio (VSWR) / Reflection Coefficient * Return Loss / Mismatch Loss * Microwave Coaxial Connectors * Power Dividers and Directional Couplers * Attenuators / Filters / DC Blocks * Terminations / Dummy Loads * Circulators and Diplexers * Mixers and Frequency Discriminators * Detectors * RF / Microwave Amplifiers * Signal Generation * Digital Processing Components * Microwave Measurements * ELECTRO-OPTICS AND IR * Introduction * Optical Spectrum * Radiometric Quantities and Terminology * Photometric Quantities * Basic Principles * Basic Radiant Power Relationships * Infrared Source Characteristics * Atmospheric Transmission * EO Components and Sensors * IR Threats to Aircraft and Their Countermeasures * IRCM * Lasers * Fiber Optics * Laser Safety * AIRCRAFT DYNAMICS CONSIDERATIONS * Free Fall / Aircraft Drag * Mach Number and Airspeed vs Altitude * Maneuverability * EMP / Aircraft Dimensions * DATA TRANSFER BUSES * Data Buses * RS-232 Interface * RS-422 Balanced Voltage Interface * RS-485 Interface * IEEE-488 Interface Bus (HP-IB/GP-IB) * MIL-STD-1553 & 1773 Data Bus * Ethernet

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