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$$R \propto \sqrt{\frac{P_T}{P_R}} \propto \sqrt{\frac{P_T}{P_N + P_C + P_J}}$$
The Nal Radar Performance Is Determined By The Signal To Interference Ratio, Where  $SIR = \frac{S}{N + C + J} = \frac{P_T}{P_N + P_C + P_J}$   $P_T$  = Signal Power  $P_N$  = Noise Power  $P_C$  = Clutter Power  $P_J$  = Jammer Power Often Only One Of  $S=N$ ,  $S=C$  Or  $S=J$  is Dominating. 15/58 1th, 2024.

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3.14 Radar, Contact Level Sensors Guided Wave Radar (TDR ...Fundamentals Of Guided Wave Radar Level Measurement. 24 Vdc. 4-20 MA Loop Powered Transmit Pulse A Reflection Is Developed Off The Liquid Surface Air  $\epsilon = 1$  A Small Amount Of Energy Continues Down The Probe In A Low Dielectric Fluid, E.g., Hydrocarbon Media  $\epsilon > 1.4$  FIG. 3.14c Oscilloscope Trace Of 1th, 2024Guided Wave Radar Vs. Non-Contact Radar For Level ...Two Of The Most Commonly Used Types Of Radar Transmitters On The Market Today Is Guided Wave Radar And Non-Contact (pulse) Radar. Guided Wave Radar (GWR) Uses A Probe To Measure To Guide High Frequency, Electromagnetic Waves As They Travel Down From A Transmitter To The Media Being Measured. Non-Contacting Radar 2th, 2024Haystack Auxiliary Radar (HAX) Millstone Hill Radar (MHR)• Long-range Navigation (LORAN) System • Critical Contributions Of The Radiation Laboratory Were: - The Microwave Early-warning (MEW) Radars, Which Effectively Nullified The V-1 Threat To London, And - Air-to-surface Vessel (ASV) Radars, Which 7th, 2024.

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