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$RPN = \frac{P_T G_T G_R}{R^2} \left( \frac{4\pi}{\lambda} \right)^3 \frac{P_{\text{Nal}}}{kT} \frac{0.5}{\text{FB}}$  The Nal Radar Performance Is Determined By The Signal To Interference Ratio, Where  $SIR = \frac{S}{N+C+J} = \frac{P_T G_T G_R}{R^2} \left( \frac{4\pi}{\lambda} \right)^3 \frac{1}{kT} \frac{0.5}{\text{FB}} \frac{C+J}{I}$   
S= Signal Power I N= Noise Power I C= Clutter Power I J= Jammer Power Often Only One Of S=N, S=Cor S=Jis Dominating. 15/58 3th, 2024

**Radar Systems Engineering Lecture 3**

Require That R2D!O2 In Order To Use (3.1.9) With Confidence, As Explained Later. Although Power Is Usually The Parameter Of Interest In Communications Or Radar Systems, Antenna Temperature Is Often Preferred When Passive Sensors For Radio Astronomy Or Remote Sensing Are Of Interest. CHAPTER 3: ANTENNAS - MIT OpenCourseWare 2th, 2024

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Scalar (Tesla) Waves -- And These Scalars Independently Would Be Longitudinal If Uncoupled. An Ordinary Transverse EM Vector Wave Is Thus Two Pair-coupled Tesla Scalar Longitudinal Waves“ (The Tesla Howitzer By Tom Bearden). “Scalar 3th, 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 3th, 2024

**Guided 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 3th, 2024

**Haystack 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 1th, 2024

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