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$$R = \sqrt{\frac{P_T G_T G_R \lambda^2}{(4\pi)^3 R^4 k T_0 F B}}$$
  
The Nal Radar Performance Is Determined By The Signal To Interference Ratio, Where  $SIR = \frac{S}{N+C+J} = \frac{P_T G_T G_R \lambda^2}{(4\pi)^3 R^4 k T_0 F B + C + J}$   
S= Signal Power | N= Noise Power | C= Clutter Power | J= Jammer Power Often Only One Of S=N, S=Cor S=J is Dominating. 15/58 15th, 2023

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Olympia II Micro FC SQ 1200 X 600 X 15 ME 4411 0.60 0.55(L) 32dB >=85% White  
A,D1 Olympia II Micro FC SLT 600 X 600 X 15 ME 4221 0.60 0.55(L) 32dB >=85%

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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 6th, 2023

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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 14th, 2023

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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 15th, 2023

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• 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 8th, 2023

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