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$R^2 = \frac{P_T G_T G_R \lambda^2}{(4\pi)^3 R^4 k T_0 F B}$  The Nal Radar Performance Is Determined By The Signal To Interference Ratio, Where  
 $SIR = \frac{S}{N + C + J} = \frac{P_T G_T G_R \lambda^2}{(4\pi)^3 R^4 k T_0 F B + C + J}$  I S= Signal Power I N= Noise Power I C= Clutter Power I J= Jammer  
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