

## Modern Radar System Analysis

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Block Diagram of a Modern Radar Systems Analysis  
In modern radar systems (e.g., WSR-88D) the square law characteristic is obtained from the sum of the squares of the in-phase and quadrature components. To improve the accuracy of power estimates,  $Q$   $k$  samples are averaged and the sample mean probability density is derived from the probability density of  $P$   $k$  and the receiver/detector transfer function ( Marshall and Hitschfeld, 1953 ).

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noise, higher gain and more durable LNAs to optimize the performance of the radar systems. A lower noise figure receiver can detect small RCS targets at further distance that was otherwise 'buried' into the noise and clutter. Finally, the modern trend in radar design is to locate the LNAs are close to the antenna as possible (actually mount

Modern Radar Techniques for Air Surveillance & Defense  
Radar systems must overcome unwanted signals in order to focus on the targets of interest. These unwanted signals may originate from internal and external sources, both passive and active. The ability of the radar system to overcome these unwanted signals defines its signal-to-noise ratio (SNR). SNR is defined as the ratio of the signal power to the noise power within the desired signal; it compares the level of a desired target signal to the level of background noise (atmospheric noise and ...

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radar system design simulation and analysis is complex because the design space spans the digital analog and rf domains these domains extend across the complete signal chain from the antenna array to radar signal processing algorithms to data processing and control Design And Simulation Of Modern Radar Systems Awr Software

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[5] Lamont V. Blake, "Radar Range-Performance Analysis", Lexington Books 1980, ISBN 0-669-00781-1 [6] ITU-R Recommendation P.838-2, Specific Attenuation Model for Rain for Use in Prediction, ITU-R, Geneva 2003 David K. Barton, "Modern Radar System Analysis, Artech House Inc, 1988, ISBN 0-89006-170-X

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