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Without knowing the precise nature of the targets at the far end of the radar beam, the

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radar system uses the measured average returned power to estimate the equivalent reflectivity ( $Z_e$ ) of all targets. Traditionally,  $Z_e$  values have been grouped together in six (6) distinct ranges.

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Precipitation intensity is measured by a ground-based radar

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that bounces radar waves off of precipitation. The Local Radar base reflectivity product is a display of echo intensity...

### **Understanding Weather Radar | Weather Underground**

Radar cross-section (RCS) is a measure of how detectable an object is by radar. Therefore, it is called electromagnetic

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signature of the object.

A larger RCS indicates that an object is more easily detected.. An object reflects a limited amount of radar energy back to the source.

## **Radar cross-section - Wikipedia**

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Dedham, MA: Artech

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Reflectivity at horizontal polarization is a dominant radar measurement in the estimation of rainfall rate using either a reflectivity-rainfall relation or polarimetric algorithms (Bringi and

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(Chandrasekar 2001).

Thus, to estimate rainfall rate at ground level, a correction of radar measurements for melting-layer effects is required.

## **Correction of Polarimetric Radar Reflectivity Measurements ...**

The prime goal of the symposium was the exchange of ideas and information relative to research efforts, past,

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present and future in the field of radar reflectivity measurements. The technical papers in Vol. 1 dwell on the following reflectivity range subjects: geometry and techniques, special equipment, models, model supports, and special ...

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APL is involved in research to learn more about radar reflectivity of the surface of the ocean . To do this it has been necessary to measure the shape of the water surface to an accuracy not possible heretofore. This paper reviews the methods used to measure wave structure and describes a stereophotogrammetric

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In the 1980's new requirements were issued to make airframes meet criteria for low radar cross-section characteristics. These requirements simultaneously created a need for improvement of radar cross-section measurement

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techniques to validate the performance of the designs.

## **Figure 2 from Introduction to RCS measurements | Semantic ...**

@inproceedings{Yasaka2010XrayTM, title={X-ray thin-film measurement techniques V . X-ray reflectivity measurement}, author={Miho Yasaka}, year={2010}

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Several measuring methods using various properties of radar signals to estimate

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rainfall rate  $R$  are reviewed. These methods are based on measurements of the radar reflectivity factor  $Z$  at one or two polarizations, on measurements of attenuation  $A$  or on a combination of these two quantities.

## **Rainfall measurement by radar: a review - ScienceDirect**

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extensive experimental measurement data be obtained on a few targets rather than fragmentary data on many targets. This should lead to better understanding of the general problem and, eventually, to possible techniques for predicting the radar cross-sections of sea targets.

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