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intended to serve  
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Abstract. The  
experimental  
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in an introductory  
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test ranges, ...

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Radar reflectivity  
measurement:

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Without knowing  
the precise nature  
of the targets at the  
far end of the radar  
beam, the radar  
system uses the  
measured average  
returned power to  
estimate the  
equivalent  
reflectivity ( $Z_e$ ) of

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all targets.

Traditionally,  $Z_e$  values have been grouped together in six (6) distinct ranges.

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Antennas and

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Newsletter (

Volume: 27 , Issue:

1 , February 1985)

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February 1985 .

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[Reviews and ...

Radar cross-section  
(RCS) is a measure

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of how detectable  
an object is by  
radar. Therefore, it  
is called

electromagnetic  
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.

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Radar cross-section  
- Wikipedia

The prime goal of the symposium was the exchange of ideas and information relative to research efforts, past, present and future in the field of radar reflectivity measurements. The technical papers in

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Vol. 1 dwell on the  
following  
reflectivity range  
subjects: geometry  
and techniques,  
special equipment,  
models, model  
supports, and  
special ...

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RADAR  
REFLECTIVITY  
MEASUREMENTS

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## SYMPOSIUM ...

The two methods were used to evaluate the reflectivity calibration of two W-band radars. The self-consistency method showed that radar 1 underestimates the reflectivity by about  $0.7 \pm 0.7$  dB, while the disdrometer-

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based method  
indicated that radar  
2 overestimates the  
reflectivity by  
0.5 – 2.1 dB.

Unfortunately, the  
rainfall rates during  
the parallel  
operation of the two  
radars at JOYCE-CF  
were not strong  
enough to compare  
the two methods  
directly.



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AMT - Evaluation  
of the reflectivity  
calibration of W-  
band ...

The next  
generation of  
retrieval techniques  
for ice cloud  
parameters used  
radar reflectivity  
measurements to  
obtain a cloud layer  
average  $Z_e$ , and

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Techniques Of  
infrared radiometer  
measurements of  
the brightness  
temperature of  
downwelling  
radiation in the 10  
 $\mu\text{m}$  to 11.5  $\mu\text{m}$   
spectral band to  
calculate cloud  
optical depth.

Radar Measurement  
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Given the drop-size distribution of a sample of rain, the radar reflectivity factor may be computed by summing the sixth-powers of the diameters of all the drops contained in a unit volume of space. Or, regarding the drop-size

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distribution  $N(D)$  as  
a continuous  
function of  
dropsizes, the  
reflectivity  
factor  $Z$  may be  
written as

Updates and  
expands

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(1984). Developed  
as a text for a short  
course at Georgia  
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The original campus of the University of Michigan was nearly a perfect square about a half-mile along a side. A street-sized walk, appropriately called the Diag, runs

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diagonally across  
this square,  
connecting its  
southeast and  
northwest corners.

In 1904 a new  
engineering building  
was either started  
or finished (I do not  
remember which)  
to house  
classrooms. When  
another engineering  
building was built

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on the expanded campus across the street from it many years later, the old building came to be known as West Engine, to distinguish it from the new East Engine. Old West Engine is (or maybe by now, was) a four-story, L-shaped structure that stood



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Radar Reflectivity Measurement

at the southeast corner of the original campus. It was built with an arch in it to straddle the Diag at the apex of the L. You walked over the Engineering Arch to get from one leg of the L to the other if you were inside the building, and you walked under it

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When you entered the campus from the southeast corner. Affixed to the masonry wall of the arch was a plaque I often noted in passing. It bore a quote attributed to Horace Greeley (1811-1872), who I did not know at the time was the founder, editor, and

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publisher of the  
New York Tribune.  
It said, simply,  
Young man, when  
theory and practice  
differ, use your  
horse sense. The  
suggestion seems  
worthy of an  
exclamation point  
instead of a period,  
but I do not  
remember if it had  
one.

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The standard procedure for estimating the point value of liquid water content ( $M$ ) along the reentry path of a ballistic missile is to use a radar derived value of radar reflectivity factor ( $Z$ ), with the

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M to Z relation  
obtained from  
aircraft  
measurements of  
the particle  
spectrum. This  
report contains  
descriptions of the  
various techniques  
used to make the  
radar and aircraft  
data compatible.  
The results of  
various methods to

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Predict the liquid water content values are compared with aircraft measured values. The extrapolation of instrumentally truncated aircraft measurements to include the entire range of particle sizes is treated in Section 1. Section 2

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contains a discussion of the method of deriving nominal M-Z relations, applies the method to data acquired at Kwajalein Missile Range, and provides M-Z relations for rain, small snow, large snow, and bullet rosettes. The introduction of the

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factor 'k' to convert from aircraft measurements to radar derived values is also discussed in Section 2. The relationship of k with altitude and temperature for data from Kwajalein and Wallops Island is covered in Section 3. Finally,



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Section 4 contains a determination of the accuracy to which liquid water content can be estimated from climatological storm data for moderate to heavy stratiform winter storms at Wallops Island. The results of Section 4 demonstrate that situations which

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deviate significantly from climatological averages still require time-specific M-Z relations derived from simultaneous aircraft-radar measurements.

This foreword deals exclusively with the

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planning,  
organization, and  
execution of the  
Workshop's  
scientific as well as  
cultural programs.  
It is opened with a  
synopsis on how  
the global political  
changes that  
occurred  
immediately after  
the Workshop  
caused the delay in

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Producing the  
proceedings,  
followed by a brief  
exposition on need,  
timeliness, and  
importance of this  
second ARW in the  
field of  
electromagnetic  
imaging, radar  
remote sensing, and  
target versus  
clutter  
di~rmination; and

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an outline of the objectives. An informal discussion about some of the organizational details, a retrospective summary of events, and a preview of the third workshop, planned for 1993 September 19-25, is intended to recapture the spirit

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of this second  
NATO Advanced  
Research Workshop  
(1988 September  
18-24), and will  
reveal how  
successful it was in  
comparison to the  
first of 1983  
September 18-24,  
how its  
accomplishments  
may be appreciated  
and why a third and

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last workshop was requested by its participants to take place during 1993 September 19-25.

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