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Detection and Countermeasures » Active & Passive Radar Detection & Equipment

The Measurement of Dipole Angle Distribution

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Abstract: **Chaff** has been in existence for more than forty years and it is perhaps remarkable that it is remained a viable countermeasure for so long, especially in the face of major advances in electronics and the resulting improvements in the capabilities of radars. The fact that **chaff** remains viable today is demonstrated in its increasing use by all of the advanced countries, and by many of the less developed countries as well. It will be viable into the future, so far as it can be foreseen at the present time. One practical reason is the length of time required to introduce into service, and their service lifetime, of systems currently being developed. But a more important one is that its potential has yet to be fully exploited, or even understood. Knowledge of even the basic characteristics of **chaff** is very limited and there is a great need to improve our understanding. This need was initially highlighted by the development of Warsaw Pact weapon systems and the extensive use of **chaff** by the countries of the Pact, but perhaps the most compelling reason is the recent growth in radar measurement capability in the West.

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Limitations:	APPROVED FOR PUBLIC RELEASE
Description:	Final technical rept.
Pages:	41
Report Date:	JUL 1982
Contract Number:	DAJA37-81-C-0182
Report Number:	A569541

Keywords relating to this report:

- ANGLES
- CHAFF
- DIPOLES
- DISTRIBUTION
- ELECTRONICS
- MEASUREMENT
- RADAR
- TIME INTERVALS
- VIABILITY
- WARSAW PACT COUNTRIES
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