Storming Media Pentagon Reports: Fast. Definitive. Complete.

Home About Us Contact Us View Cart My Account FAQ

username LOGIN New Account » Forgot Password? CHAFF GO Advanced Search »

Bistatic Radar Cross Sections of Chaff

Authors: Peyton Z. Peebles Jr.; Barry Stann; FLORIDA UNIV GAINESVILLE ELECTRONIC COMMUNICATIONS LAB

Abstract: Bistatic cross sections applicable to scattering from a cloud of randomly positioned and randomly oriented resonant dipoles, or **chaff**, are found. The **chaff** cloud can have an arbitrary location relative to an illuminating radar and the radar antenna can have an arbitrarily specified polarization. The receiver can be located arbitrarily in relation to the radar and **chaff** cloud and can also have arbitrary polarization (different from transmitter antenna). Average cross sections are found a preferred receiver polarization, and the corresponding orthogonal polarization. Results are reduced to simple, easily applied expressions, and several examples are developed to illustrate the ease with which the general results can be applied in practice.

Adobe PDF - $19.95

Printed Format - $22.95

ADD TO CART

Please check the box for the format you wish to order.

Shipping Terms
About Electronic Delivery

Email This Abstract

Limitations:	APPROVED FOR PUBLIC RELEASE
Description:	Contractor rept.
Pages:	40
Report Date:	JUN 1983
Contract Number:	DAAK21-82-C-0107
Report Number:	A769331

Keywords relating to this report:

- *BISTATIC DETECTION
- *CHAFF
- *DIPOLES
- *RADAR CROSS SECTIONS
- ANTENNAS
- BIBLIOGRAPHIES
- CROSS SECTIONS
- ELECTROMAGNETIC SCATTERING
- ILLUMINATION
- ORTHOGONALITY
- POLARIZATION
- RADAR
- RADAR ANTENNAS
- RADAR RECEIVERS
- RADAR TRANSMITTERS
- RECEIVERS
- RESONANCE
- TRANSMITTERS

« Back to search

© 2001-496 Storming Media LLC. All rights reserved.