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### Polarization Processing Techniques Study

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**Abstract:** Polarization serves as a discriminant between radar targets and surrounding **chaff** and clutter. A dual channel system is required to utilize polarization information which exists in the target scattering matrix. Several methods are presented for designing an optimum polarization codes transmit waveform and matched coherent receiver based on target and clutter statistics. Simulation results for various target models against **chaff** show a significant increase in detectability for the two-channel system.

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**Description:** Final technical rept. Mar 1978-Mar 1979

**Pages:** 150

**Report Date:** NOV 1979

**Contract Number:** F3060278C0119

**Report Number:** A565080

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