

Abstracts

Hybrid Lidar-Radar Ocean Experiment

L.J. Mullen, P.R. Herczfeld and V.M. Contarino. "Hybrid Lidar-Radar Ocean Experiment." 1996 Transactions on Microwave Theory and Techniques 44.12 (Dec. 1996, Part II [T-MTT] (1996 Symposium Issue)): 2703-2710.

This paper concerns a novel hybrid lidar-radar system for underwater surveillance. Simulations and laboratory measurements incorporating the hybrid detection scheme revealed a 17-dB suppression of the water backscatter signal (clutter) and corresponding target contrast enhancement. These results led to the design, implementation and testing of a lidar-radar system for ocean experimentation. Details of the system, in addition to the goals and results of the ocean experiment, are presented.

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