

Abstracts

Retro-transceiver array using monopole antennas

S. Karode and V. Fusco. "Retro-transceiver array using monopole antennas." 2001

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In this paper, we show how a self-tracking antenna array constructed using $\lambda/4$ monopoles can be constructed, which is capable of receiving with gain over an entire 360° azimuthal cut. It is also shown how the self-tracking receive unit can be used in conjunction with a self-phased transmitter so that self-steered spatially selective receive and transmit functions can be formed simultaneously. The resulting array is capable of maintaining spatially selective receive and transmit functions to a roaming target without prior knowledge of its physical location.

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