

Self-tracking duplex communication link using integrated retrodirective antennas

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A new type of active retrodirective antenna array for full duplex transceiver applications is presented in this paper. The architecture of a dual frequency retrodirective array normally used only for returning an encoded signal to its originating source has been modified to now include a receive function. The usefulness of this new architecture is demonstrated by constructing a bi-directional communication link based on two identical architectures operating in conjunction with a single pilot signal.

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