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New Design Creates Ultra Wideband Antenna

Ultra-wideband phased antenna arrays

Ultrawideband Optically Fed Tightly Coupled Phased Array Abstract: We present an optically fed tightly coupled array (TCA) antenna capable of ultrawideband operation ranging from 4-12 GHz. Full-wave simulations have been performed to yield an optimal array design incorporating all required components into the photodiode-integrated antenna model.

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ter nearly a decade of R&D, practical UWB phased array antennas are becoming a reality.

What is an UWB radar? UWB-Radar. Ultra Wide-band (UWB) radar systems transmit signals across a much wider frequency than conventional radar systems and are usually very difficult to detect. The transmitted signal is significant for its very light power spectrum, which is lower than the allowed unintentional radiated emissions for electronics.

Abstract—The fundamentals of ultra-wideband (UWB) focused phased array antennas are reviewed, and some basic limitations are outlined. It is shown that when phase shifters are used within the architecture of the array, the focal point moves as a function of frequency, which degrades the focusing performance of the antenna.

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Phased Array Antenna Limitations for Ultra-Wideband Focusing

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Ultrawideband Phased Array Antenna Technology

The book focuses on experimental prototype ultrawideband phased array technology developed at Lincoln Laboratory for applications in the VHF and UHF bands from approximately 100 MHz to 1 GHz, and addresses dipole, monopole, loop, and other antenna array elements. It offers examples of antennas for both airborne and ground vehicle applications.

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