



## Ultra-wideband Radar Technology

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In 1995, James D. Taylor's Introduction to Ultra-Wideband Radar Systems introduced engineers to the theory behind a promising new concept for remote sensing. Since then, the field has undergone enormous growth with new applications realized and more applications conceptualized at a remarkable pace. However, understanding ultra-wideband (UWB) radar requires a new philosophical approach. Concepts such as radar cross section will have new meanings as range resolution becomes smaller than the target.

Ultra-Wideband Radar Technology is a guide to the future of radar by an international team of experts. They present the problems, solutions, and examples of UWB radar remote sensing. Chapters discuss the theory and ideas for future systems development, and show the potential capabilities. The writers present concepts such as the differences between UWB and conventional radars, improving over-resolved target detection, receivers and waveforms, micropower systems, high power switching, and bistatic radar polarimetry.

Finding comparable information elsewhere might require consulting hundreds of other books, technical journals, and symposium proceedings. Ultra-Wideband Radar Technology offers a unique opportunity to explore the theory, applications, and technology of UWB radar within a single source.

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