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Electromagnetic waves are transmitted sequentially, the echoes are collected and the system electronics digitizes and stores the data for subsequent processing. As transmission and reception occur at different times, they map to different positions.

Synthetic-aperture radar - Wikipedia

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imagery. SAR complements photographic and other optical imaging capabilities (that are limited by settings such as the time of day and atmospheric conditions) because of the unique responses of terrain and cultural targets to radar frequencies.

Synthetic Aperture Radar Systems | SRC, Inc.
Synthetic Aperture Radar Signal Processing With MATLAB Algorithms. John Wiley and Sons, 1999. [2] MIT Lincoln Laboratory. "HPCS Scalable Synthetic Compact Application #3: Sensor Processing, Knowledge Formation, and Data I/O," Version 1.03, 15 March 2007. [3]

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