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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] MIT Lincoln Laboratory. "High-Performance Embedded Computing Challenge Benchmark." ×

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This cutting-edge resource offers you complete how-to guidance on digital processing of synthetic aperture radar (SAR) data. You discover how SAR is used to obtain a high-resolution image from a satellite and learn the mathematical structure and spectral properties of the signal received from a SAR system. Supported with over 600 equations and over 250 figures, the book arms you with state-of-the-art signal processing algorithms and helps you choose the best algorithm for a given SAR system ...

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A synthetic-aperture radar is an imaging radar mounted on a moving platform. 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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Synthetic aperture radar systems take advantage of the propagation characteristics of radar signals and the complex information processing capability of modern digital electronics to provide high resolution 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] MIT Lincoln Laboratory. "High-Performance Embedded Computing Challenge Benchmark." ×

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The use of synthetic aperture radar (SAR) represents a new era in remote sensing technology. A complete handbook for anyone who must design an SAR system capable of

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