

Synthetic Aperture Radar Signal Processing with MATLAB Algorithms

By Mehrdad Soumekh

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An up-to-date analysis of the SAR wavefront reconstruction signal theory and its digital implementation With the advent of fast computing and digital information processing techniques, synthetic aperture radar (SAR) technology has become both more powerful and more accurate. Synthetic Aperture Radar Signal Processing with MATLAB Algorithms addresses these recent developments, providing a complete, up-to-date analysis of SAR and its associated digital signal processing algorithms. This book introduces the wavefront reconstruction signal theory that underlies the best SAR imaging methods and provides clear guidelines to system design, implementation, and applications in diverse areas-from airborne reconnaissance to topographic imaging of ocean floors to surveillance and air traffic control to medical imaging techniques, and numerous others. Enabling professionals in radar signal and image processing to use synthetic aperture technology to its fullest potential, this work:
* Includes M-files to supplement this book that can be retrieved from The MathWorks anonymous FTP server at ftp://ftp.mathworks.com/pub/books/soumekh
* Provides practical examples and results from real SAR, ISAR, and CSAR databases
* Outlines unique properties of the SAR signal that cannot be found in other information processing systems
* Examines spotlight SAR, stripmap SAR, circular SAR, and monopulse SAR modalities
* Discusses classical SAR processing issues such as motion compensation and radar calibration

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About the Author
MEHRDAD SOUMEKH has served as SAR signal processing consultant for various government and industrial laboratories, including the Navy SPAWAR System Center, San Diego, and others. In addition to publishing more than 40 papers and the book Fourier Array Imaging, Dr. Soumekh holds a U.S. patent for his work on the application of wavefront reconstruction theory in SAR imaging.

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