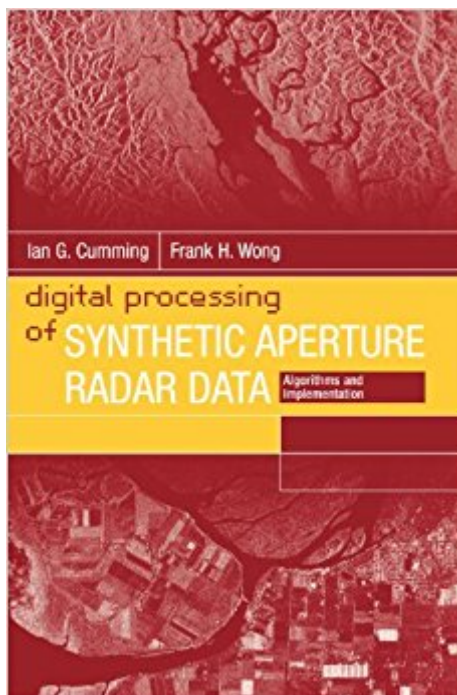




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Digital Processing Of Synthetic Aperture Radar Data: Algorithms And Implementation [With CDROM] (Artech House Remote Sensing Library)



Synopsis

Synthetic Aperture Radar (SAR) is of major interest to radar professionals because it allows them to obtain high-resolution images with unsurpassed clarity from satellites that take pictures of the earth's surface in all weather conditions. This cutting-edge resource offers complete "how to" guidance on digital processing of synthetic aperture radar (SAR) data. Professionals discover precisely how this radar system works and gain an in-depth understanding of the properties of SAR data. The book explains how digital computers are used to form the focused image and provides practitioners with state-of-the-art processing algorithms that they can use for their projects. Written from a signal processing point of view, this authoritative volume can be fully understood by professionals and students with a general electrical engineering background.

Book Information

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Average Customer Review: 4.3 out of 5 stars [See all reviews](#) (3 customer reviews)

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Customer Reviews

This book is for professional engineers and/or graduate students in Electrical Engineering who need to know the math behind SAR processing. There are no code listings that you can mindlessly copy, however the math and signal processing is explained very thoroughly and in great detail. It covers most of the useful modern algorithms (RDA, CSA, omega-k, SPECAN) and gives the reader the foundations necessary to explore other methods (wavelet-based, time-domain, etc.) If you need to know how to process SAR data, this is the book you want to buy.

Really excellent book. I suggest it to all people entering in the world of SAR image signal processing.

This book is not that helpful if you are trying to learn how to process SAR data. It does include a data file on the CD of raw SAR data, however, no reconstruction program is provided. It would be a lot more helpful if this book did a walk through with an example program so that someone who has no experience with radar would be able to begin reconstructing SAR images.

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