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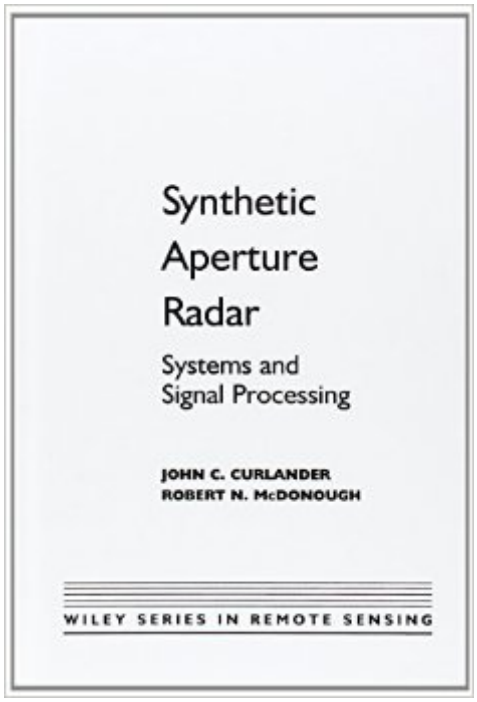
Synthetic Aperture Radar: Systems And Signal Processing



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Synopsis

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 reliably producing high quality image data products, free from image artifacts and calibrated in terms of the target backscatter coefficient. Combines fundamentals underlying the SAR imaging process and the practical system engineering required to produce quality images from a real SAR system. Beginning with a broad overview of SAR technology, it goes on to examine SAR system capabilities and components and detail the techniques required for design and development of the SAR ground data system with emphasis on the correlation processing. Intended for SAR system engineers and researchers, it is generously illustrated for maximum clarity.

Book Information

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Customer Reviews

After having used a half dozen books on the topic of synthetic aperture radar signal processing, this is the best. The authors are very careful with their explanations and derivations, and keep their discussions within the subject context. Other books don’t do this, and the details of SAR processing can become confusing to the novice. I highly recommend this book to anyone interested in SAR, despite the very high price tag.

This book is for people with some knowledge on SAR who likes to know mathematical theory behind SAR processing. The authors focused their attention on satellite boarded radars, leaving in

second plan problems faced on aircraft boarded SAR systems.

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