

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

By Ian G. Cumming, Frank H. Wong

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.

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About the Author

Ian G. Cumming is a professor in the department of electrical and computer engineering at the University of British Columbia. A member of the IEEE, he holds a B.A.Sc. in engineering physics from the University of Toronto and a Ph.D. in computing and automation from Imperial College, University of London.

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Each author has worked in the field of Synthetic Aperture Radar for over 25 years, and has developed many of the SAR processing algorithms presented in the book.

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