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

By Ian G. Cumming, Frank H. Wong

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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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Editorial Review

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.

Frank H. Wong is a senior engineer with MacDonald Dettwiler and Associates. He holds a B.Eng. in electrical engineering from McGill University, an M.Sc. in electrical engineering from Queen's University, and a Ph.D. in computer science from the University of British Columbia.

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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