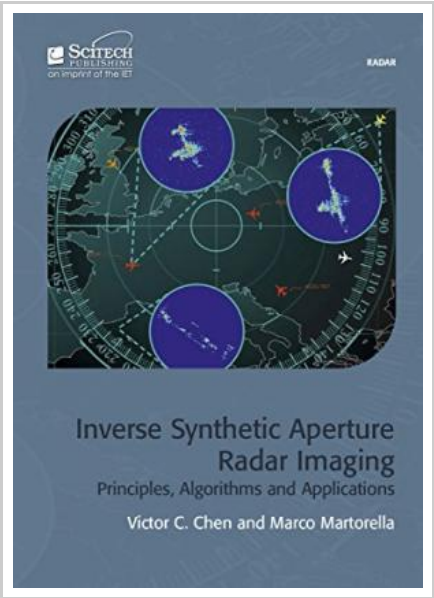

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Inverse Synthetic Aperture Radar Imaging: Principles, Algorithms and Applications (Hardback)

By Victor C. Chen, Marco Martorella

SciTech Publishing Inc, United States, 2014. Hardback. Book Condition: New. 257 x 178 mm. Language: English . Brand New Book. This book is based on the latest research on ISAR imaging of moving targets and non-cooperative target recognition (NCTR). It focuses on how to generate high-resolution ISAR images of targets of interest and how to deal with factors that affect the process. It also looks at extracting information from ISAR images and performing non-cooperative target recognition (NCTR) of moving targets. Inverse Synthetic Aperture Radar Imaging covers the more detailed image formation and auto-focusing algorithms as well as applications of these algorithms to real world ISAR imaging. It also includes MATLAB source codes for the simulation of radar scattering from moving targets, implementations of ISAR image formation, auto-focusing, and imaging time selection, and simulations of bi-static and multi-static ISAR imaging algorithms. Inverse Synthetic Aperture Radar Imaging provides readers with a working knowledge of the subject. Some key topics include: monostatic and bistatic RCS models for ISAR, point spread function and 2-D imaging, polarimetric ISAR, interferometry in ISAR, bandwidth extrapolation technique in ISAR, multi-window spectrum estimation, clean algorithm, effect of rotational motion on ISAR imaging, selection of optimal imaging timewindow, ISAR imaging...

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