



Digital Signal Processing Techniques and Applications in Radar Image Processing (Information and Communication Technology Series,)

Bu-Chin Wang

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A self-contained approach to DSP techniques and applications in radar imaging

The processing of radar images, in general, consists of three major fields: Digital Signal Processing (DSP); antenna and radar operation; and algorithms used to process the radar images. This book brings together material from these different areas to allow readers to gain a thorough understanding of how radar images are processed.

The book is divided into three main parts and covers:

* DSP principles and signal characteristics in both analog and digital domains, advanced signal sampling, and interpolation techniques

*

Antenna theory (Maxwell equation, radiation field from dipole, and linear phased array), radar fundamentals, radar modulation, and target-detection techniques (continuous wave, pulsed Linear Frequency Modulation, and stepped Frequency Modulation)

*

Properties of radar images, algorithms used for radar image processing, simulation examples, and results of satellite image files processed by Range-Doppler and Stolt interpolation algorithms

The book fully utilizes the computing and graphical capability of MATLAB[®] to display the signals at various processing stages in 3D and/or cross-sectional views. Additionally, the text is complemented with flowcharts and system block diagrams to aid in readers' comprehension.

Digital Signal Processing Techniques and Applications in Radar Image Processing serves as an ideal textbook for graduate students and practicing engineers who wish to gain firsthand experience in applying DSP principles and technologies to radar imaging.

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