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Signal And

Synthetic

Aperture Radars

(SAR) Technology

and Applications

NASA ARSET:

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Basics of Synthetic Aperture Radar (SAR), Session

~~1/4 Synthetic
Aperture Radar
RS3.7 - Radar:
measurement~~

~~principle~~

~~Synthetic
Aperture Radar
(SAR): For
Forest Structure~~

Two Part SAR

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Webinar: Part 1-

**Introduction to
Aperture Radar
Synthetic**

Aperture Radar

(SAR) Data Geo

for Good 2019:

Learn about

Synthetic

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(Sentinel-1)

~~Impulse~~

~~Synthetic~~

~~Aperture Radar~~

~~Demonstration at~~

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SAR Tutor: E-
Aperture Radar
Learning on
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Radar Basics and
SAR **ESA Echoes in
Space - History:
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principle 3D
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~~Echoes in Space~~

~~— Land:~~

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Interferometry

Stealth – How

Does it Work?

(Northrop B-2

Spirit) Defcon

21 – The Secret

Life of SIM

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*Sensors /
Aperture Radar
Switches:
Imaging A
Comparison and
Tests*

What is
SYNTHETIC
APERTURE RADAR?

What does
SYNTHETIC
APERTURE RADAR
mean?**What are**

**SAR satellites
and how do they**

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work? *DEFCON 19:*

*Build your own
Aperture Radar
Synthetic*

Aperture Radar

DEFCON 19: Build

*your own
Synthetic*

Aperture Radar

(w speaker)

~~(A25) Artificial
Intelligence in
Space: Change~~

~~Detection with
Radar Satellite~~

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Data Webinar SAR

Imaging using
Aperture Radar
Ancortek's

Software Defined

Radars *Signal*

Processing of
Simulation
Polarimetric

SAR: Detection

and Parameter

Extraction

(Carlos López-
Martínez)

Synthetic

Aperture Radar:

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*Of Bats and
Flying Planes*

~~Principles Of
Synthetic~~

~~Aperture Radar~~

A synthetic-
aperture radar

is an imaging
radar mounted on

a moving
platform.

Electromagnetic
waves are

transmitted

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sequentially, the echoes are collected and the system electronics digitizes and stores the data for subsequent processing. As transmission and reception occur at different times, they map to different

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Synthetic Aperture Radar
positions.

~~Synthetic Aperture Radar~~
~~aperture radar~~
~~Wikipedia~~

What's Synthetic Aperture Radar (SAR)? The approach to SAR is to use the electromagnetic spectrum with microwave bands inset. The spatial resolution of radar data is

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directly related to the ratio of the sensor wavelength to the length of the sensor's antenna. For a given wavelength, the longer the antenna, the higher the spatial resolution.

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~~What is
Aperture Radar
Synthetic
Aperture Radar?~~

~~+ Earthdata~~

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development of SAR systems. The book focuses on image formation or focusing, treats platform motion and image focusing, and is suitable for students, radar engineers, and microwave remote sensing researchers.

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Synthetic
Aperture Radar
(SAR) satellites
collect swaths
of side-looking
echoes at a suf-
?ciently high
range resolution

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and along-track
sampling rate to
form high
resolution

imagery (see
Figure A1). As
discussed in
this appendix,
the range
resolution of
the raw radar
data is

determined by
the pulse length

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(or $1/\text{bandwidth}$)
and the
Aperture Radar
incidence angle.

Imaging A

~~A Principles of
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~~Aperture Radar~~

A Synthetic

Aperture Radar

was used on

board of a Space

Shuttle during

the Shuttle

Radar Topography

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Synthetic Aperture Radar (SAR) .

SAR radar is partnered by what is termed

Inverse SAR (abbreviated to ISAR) technology

which in the broadest terms, utilizes the

movement of the target rather than the emitter

to create the

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aperture. ISAR radars have a significant role aboard maritime patrol aircraft to provide them with radar image of sufficient quality to allow it to be used for target recognition ...

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~~Synthetic~~

~~Aperture Radar~~

~~Radartutorial~~

“Principles of

Synthetic

Aperture Radar”

will address the
following

topics:

Functionality of

a radar, the

resolution of

radar, the

principle of a

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synthetic
aperture, what
does a radar
measure, data
acquisition,
principles of
range and
azimuth
compression,
image
distortions
(foreshortening,
layover, etc.).

Instructor. Dr.

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Marwan Younis

Aperture Radar

~~Principles of
Imaging A
Synthetic~~

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Principles of
Synthetic

Aperture Radar 7

simultaneously
at three

frequencies (L_1 ,
and X) with the

C- and L-band
having the

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ability to
alternately
transmit and
receive at both
horizontal and
vertical
polarization.

~~Chapter 1.~~
~~Principles of~~
~~Synthetic~~
~~Aperture Radar~~
Principles of
Synthetic

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Because of the way in which microwaves

interact with the atmosphere and the ground, only a select few frequency bands are useful for imaging.

These are shown in Figure 5. The wavelength

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affects the
penetration
depth and also
the size of a
target necessary
to return the
radar. This
shall be
discussed later.

~~Theory of
Synthetic
Aperture Radar~~

UZH

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Another possible application of the gyromagnetic lines could be in pulsed radar satellites [as synthetic aperture radar (SAR)] that are used in remote sensing to provide the data and information...

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~~Synthetic~~
~~Aperture Radar~~
~~Aperture Radar~~
~~(SAR) :~~

~~Principles and~~

~~•••~~
~~Simulation~~
Session

Objectives: -

interpret the
information in
SAR images-
recognize

distortions that
need to be

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corrected in SAR images- describe the basics of PolSAR a...

System

~~NASA ARSET:~~

~~Basics of Synthetic~~

~~Aperture Radar (SAR) ...~~

The angular size (in the case of the real aperture radar)

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or the Doppler history (in the case of the synthetic aperture radar) is used to separate surface pixels in the along-track dimension in the radar images. As we will see later, only the azimuth imaging

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mechanism of real aperture radars is similar to that of regular cameras.

~~Chapter 1~~

~~Synthetic~~

~~Aperture Radars~~

~~(SAR) Imaging~~

~~Basics~~

~~Basic~~

~~operational~~

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principles of
synthetic
aperture radar
systems are
reviewed, with
an emphasis on
the data
processing
requirements.
The techniques
of image
formation for
these systems
are covered...

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Of Synthetic~~

~~Aperture Radar~~

~~Imaging A~~
System: Principles of

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Approach
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System And

Simulation

Image
Approach

Processing Of
demonstrates the

Earth
use of image

Observations
simulation for

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SAR. It covers
the Covid Safety
Holiday Shipping
Membership

Educators Gift
Cards Stores &
Events Help

~~Principles of
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~~Aperture Radar
Imaging: A~~

~~System ...~~

Synthetic

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Aperture Radar

(SAR) is a microwave imaging system.

It has cloud penetrating capabilities because it uses microwaves; it has day and night

operational capabilities

because it is an

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Imaging A System Simulation Approach
Signal And Image Processing Of Earth
Observations

active system;
and its
'interferometric
configuration',
Interferometric
SAR or InSAR,
allows accurate
measurements of
the radiation
travel path
because it is
coherent.

ESA — InSAR

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~~Principles:~~

~~Guidelines for
Aperture Radar
SAR~~

~~Interferometry~~

~~System~~

~~Simulation~~
A pulse-Doppler
radar is a radar
system that

~~Approach~~
determines the

~~Signal And~~
range to a
target using
pulse-timing

~~Image~~
techniques, and

~~Processing Of~~
uses the Doppler

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effect of the returned signal to determine the target object's velocity. It combines the features of pulse radars and continuous-wave radars, which were formerly separate due to the complexity of the

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electronics..

The first
Aperture Radar
operational

Pulse Doppler

radar was in the

•••

Simulation

~~Pulse Doppler~~

~~radar~~

~~Wikipedia~~

Synthetic

Aperture Radar

(SAR) is an

active microwave

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imaging
method. It
Aperture Radar
operates
Imaging A
independently of
System
Sun illumination
Simulation
and cloud
Approach
coverage. Current
Spaceborne
systems use
Signal And
wavelengths of 3
Image
to 25 cm and
Processing Of
achieve

Earth
Observations
resolutions of 10
to 50 m. The

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paper attempts
to explain the
basic SAR
imaging
principles using
a minimum of
mathematics.

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Synthetic~~

~~Aperture Radar +
SpringerLink~~

~~Principles Of
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demonstrates the
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simulation for

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the various

applications of

SAR (including

feature

extraction,

target

classification,

and change

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detection),
provides a
complete
understanding of
SAR principles,
and illustrates
the complete
chain of a SAR
operation. The
book places
special emphasis
on a ground-
based SAR, but
also explains

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space and air-
borne systems.

It contains
chapters on

signal speckle,
radar-signal

models, sensor-
trajectory

models, SAR-
image focusing,

platform-motion
compensation,

and microwave-
scattering from

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random media.

While discussing SAR image

focusing and

motion

compensation, it presents

processing

algorithms and

applications

that feature

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target

classification,

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also provides
samples of

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Approach

simulation on
various

Simulation
Approach

scenarios, and
includes

Simulation
Image

simulation

Simulation
Image
Processing Of

flowcharts and
results that are
detailed

Earth
Observations

throughout the
book.

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Aperture Radar
systems point of
Imaging A
view, the

author:

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Simulation
recent
Approach
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MIMO SAR
Image
technology

Includes
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Earth
implementation

Provides a

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analysis of
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system
Imaging A
parameters
(including
platforms,
Simulation
sensor, and
Approach
image focusing,
Signal And
and their
Image
influence)
Explores wave-
Processing Of
target
Earth
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Observations
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formation,
motion

compensation

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platform motion
compensation and
error analysis,
and their impact
on final image
radiometric and
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SFMCW system
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dedicated to the
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development of
SAR systems. The
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radar-signal
models, sensor-
trajectory
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image focusing,

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platform-motion
compensation,
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scattering from
random media.

While discussing
SAR image
focusing and
motion
compensation, it
presents
processing
algorithms and
applications

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provides broad-
System
area imaging at
Simulation
high resolutions,
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which is used in
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applications
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ental monitoring,
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earth-resource
Observations
mapping, and
military
systems. This

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book presents the tools required for the digital processing of synthetic aperture radar images. They are of three types: (a) the elements of physics, (b) mathematical models and (c) image processing

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methods adapted
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thetic aperture
radar to earth
remote sensing
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research at
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information for

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sensing of the
earth. The book
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aperture radar
to provide the
basis for
understanding
how polarimetric
SAR images
are formed and
gives an
introduction to
the fundamentals
of radar polarime-
try. It goes on
to discuss more
advanced polarim

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etric concepts that allow one to infer more information about the terrain being imaged. In order to analyze data quantitatively, the signals must be calibrated carefully, which the book addresses in

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polarimetry
principles in
Earth remote
sensing with an
educational
purpose. In the

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last decade, the
operations from
fully

polarimetric

synthetic

aperture radar

such as the

Japanese

ALOS/PALSAR, the

Canadian

Radarsat-2 and

the German

TerraSAR-X and

their easy data

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access for
scientific use
have developed
further the
research and
data
applications at
L, C and X band.

As a
consequence, the
wider
distribution of
polarimetric
data sets across

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the remote
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Aperture Radar
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boosted activity
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and development
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Signal And
also in view of
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future missions.
Numerous
Processing Of
experiments with
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platforms are shown, with the aim of giving an up-to-date and complete treatment of the unique benefits of fully polarimetric synthetic aperture radar data in five different domains: forest,

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agriculture,

cryosphere,

urban and

oceans.

System

Synthetic

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Imaging

Mechanism for

Oil Spills

delivers the

critical tool

needed to

understand the

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radar imaging of
oil spills,
particularly
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as a main source
to understand
analysis and
applications in
the field of
marine
pollution.

Filling the gap
Page 84/112

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between modern
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radar imaging of
oil spills, this
reference is
packed with
technical
details
associated with
the potentiality
of synthetic
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(SAR) and the key methods used to extract the value-added information necessary, such as location, size, perimeter and chemical details of the oil slick from SAR measurements.

Rounding out

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trajectory
movements of oil
spills using
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technology and
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learning machine
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new techniques
Signal And
for detection,
Image
such as quantum
and multi-
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Earth
algorithms

Observations
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guide offers a
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in synthetic
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LFM systems,
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are discussed in
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detail. Coverage
includes:

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quality and

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Moving objects
Signal And
in SAR And
Image
Modern airborne
Processing Of
and spaceborne
Earth
imaging radars,
known as
Observations

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synthetic aperture radars (SARs), are capable of producing high-quality pictures of the earth's surface while avoiding some of the shortcomings of certain other forms of remote imaging systems. Primarily, radar

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overcomes the nighttime limitations of optical cameras, and the cloud-cover limitations of both optical and infrared imagers. In addition, because imaging radars use a form of coherent

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illumination,
they can be used
in certain
special modes
such as
interferometry,
to produce some
unique
derivative image
products that
incoherent
systems cannot.
One such product
is a highly

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accurate digital
terrain
elevation map
(DTEM). The most
recent (ca.
1980) version of
imaging radar,
known as
spotlight-mode
SAR, can produce
imagery with
spatial
resolution that
begins to

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approach that of
remote optical
aperture radar
imagers. For all
of these

reasons,
synthetic
aperture radar
imaging is

rapidly becoming
a key technology
in the world of
modern remote

sensing. Much of
the basic

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'workings' of
synthetic
Aperture Radar
Imaging A
System of
signal
processing.
Starting with
that premise,
this book
explores in
depth the
fundamental
principles upon

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which the spotlight mode of SAR imaging is constructed, using almost exclusively the language, concepts, and major building blocks of signal processing.

Spotlight-Mode Synthetic

Aperture Radar:

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A Signal
Processing
Aperture Radar
Approach is
intended for a
variety of
audiences.
Engineers and
scientists
working in the
field of remote
sensing but who
do not have
experience with
SAR imaging will

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find an easy
entrance into
what can seem at
times a very
complicated
subject.

Experienced
radar engineers
will find that
the book

describes
several modern
areas of SAR
processing that

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they might not
have explored
previously, e.g.
interferometric
SAR for change
detection and
terrain
elevation
mapping, or
modern non-
parametric
approaches to
SAR autofocus.

Senior

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undergraduates
(primarily in
electrical
engineering) who
have had courses
in digital
signal and image
processing, but
who have had no
exposure to SAR
could find the
book useful in a
one-semester
course as a

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reference.

Aperture Radar

This book is

based on the

latest research

on ISAR imaging

of moving

targets and non-

cooperative

target

recognition

(NCTR). With a

focus on the

advances and

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applications, it provides readers with a working knowledge of various algorithms of ISAR imaging of targets and implementation with MATLAB.

Synthetic Aperture Radar
Processing

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Simply and methodically presents principles and techniques of Synthetic Aperture Radar (SAR) image generation by analyzing its system transfer function. The text considers the full array

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of operation
modes from strip
to scan,
emphasizes
processing
techniques,
enabling the
design of
operational SAR
codes. A simple
example then
follows. This
book will be
invaluable to

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all SAR
scientists and
engineers
working in the
field. It may be
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basis for a
course on SAR
image generation
or as a
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contains a wide

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