

SYNTHETIC APERTURE

KUN-SHAN CHEN

[?] **SPOTLIGHT-MODE SYNTHETIC APERTURE RADAR: A SIGNAL PROCESSING APPROACH** CHARLES V. J. JAKOWATZ, DANIEL E. WAHL, PAUL H. EICHEL, DENNIS C. GHIGLIA, PAUL A. THOMPSON, 2012-12-06 MODERN AIRBORNE AND SPACEBORNE IMAGING RADARS, KNOWN AS 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 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 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 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 APPROACH THAT OF REMOTE OPTICAL 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 'WORKINGS' OF SYNTHETIC APERTURE RADARS IS ROOTED IN THE CONCEPTS OF SIGNAL PROCESSING. STARTING WITH THAT PREMISE, THIS BOOK EXPLORES IN DEPTH THE FUNDAMENTAL PRINCIPLES UPON 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: A SIGNAL PROCESSING 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 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 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 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 REFERENCE.

[?] **PROCESSING OF SYNTHETIC APERTURE RADAR (SAR) IMAGES** HENRI MA[TRE], 2013-05-10 SYNTHETIC APERTURE RADAR PROVIDES BROAD-AREA IMAGING AT HIGH RESOLUTIONS, WHICH IS USED IN APPLICATIONS SUCH AS ENVIRONMENTAL MONITORING, EARTH-RESOURCE MAPPING, AND MILITARY SYSTEMS. THIS 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 METHODS ADAPTED TO PARTICULAR APPLICATIONS.

[?] **UNDERSTANDING SYNTHETIC APERTURE RADAR IMAGES** CHRIS OLIVER, SHAUN QUEGAN, 2004 THIS PRACTICAL REFERENCE SHOWS SAR SYSTEM DESIGNERS AND REMOTE SENSING SPECIALISTS HOW TO PRODUCE HIGHER QUALITY SAR IMAGES USING DATA-DRIVEN ALGORITHMS, AND APPLY POWERFUL NEW TECHNIQUES TO MEASURE AND ANALYZE SAR IMAGE CONTENT.

[?] **DESIGN TECHNOLOGY OF SYNTHETIC APERTURE RADAR** JIAGUO LU, 2019-08-26 AN AUTHORITY WORK ON SYNTHETIC APERTURE RADAR SYSTEM ENGINEERING, WITH KEY FOCUS ON HIGH RESOLUTION IMAGING, MOVING TARGET INDICATION, AND SYSTEM ENGINEERING TECHNOLOGY SYNTHETIC APERTURE RADAR (SAR) IS A POWERFUL MICROWAVE REMOTE SENSING TECHNIQUE THAT IS USED TO CREATE HIGH RESOLUTION TWO OR THREE-DIMENSIONAL REPRESENTATIONS OF OBJECTS, SUCH AS LANDSCAPES, INDEPENDENT OF WEATHER CONDITIONS AND SUNLIGHT ILLUMINATION. SAR TECHNOLOGY IS A MULTIDISCIPLINARY FIELD THAT INVOLVES MICROWAVE TECHNOLOGY, ANTENNA TECHNOLOGY, SIGNAL PROCESSING, AND IMAGE INFORMATION PROCESSING. THE USE OF SAR TECHNOLOGY CONTINUES TO GROW AT A RAPID PACE IN A VARIETY OF APPLICATIONS SUCH AS HIGH-RESOLUTION WIDE-SWATH OBSERVATION, MULTI-AZIMUTH INFORMATION ACQUISITION, HIGH-TEMPORAL INFORMATION ACQUISITION, 3-D TERRAIN MAPPING, AND IMAGE QUALITY IMPROVEMENT. DESIGN TECHNOLOGY OF SYNTHETIC APERTURE RADAR PROVIDES DETAILED COVERAGE OF THE FUNDAMENTAL CONCEPTS, THEORIES, TECHNOLOGY, AND DESIGN OF SAR SYSTEMS AND SUB-SYSTEMS. SUPPORTED BY THE AUTHOR'S OVER TWO DECADES OF RESEARCH AND PRACTICE EXPERIENCE IN THE FIELD, THIS IN-DEPTH VOLUME SYSTEMATICALLY DESCRIBES SAR DESIGN AND PRESENTS THE LATEST RESEARCH DEVELOPMENTS. PROVIDING EXAMINATION OF ALL TOPICS RELEVANT TO SAR—FROM RADAR AND ANTENNA SYSTEM DESIGN TO RECEIVER TECHNOLOGY AND SIGNAL AND IMAGE INFORMATION PROCESSING—THIS COMPREHENSIVE RESOURCE: PROVIDES WIDE-RANGING, UP-TO-DATE EXAMINATION OF ALL MAJOR TOPICS RELATED TO SAR SCIENCE, SYSTEMS, AND SOFTWARE INCLUDES GUIDELINES TO CONDUCT GROUNDING SYSTEM DESIGNS AND ANALYSIS OFFERS COVERAGE OF ALL SAR ALGORITHM CLASSES AND DETAILED SAR ALGORITHMS SUITABLE FOR ENABLING SOFTWARE IMPLEMENTATIONS SURVEYS SAR AND COMPUTED IMAGING LITERATURE OF THE LAST SIXTY YEARS EMPHASIZES HIGH RESOLUTION IMAGING, MOVING TARGET INDICATION, AND SYSTEM ENGINEERING DESIGN TECHNOLOGY OF SYNTHETIC APERTURE RADAR IS INDISPENSABLE FOR GRADUATE STUDENTS MAJORING IN SAR SYSTEM DESIGN, MICROWAVE ANTENNA, SIGNAL AND INFORMATION PROCESSING AS WELL AS ENGINEERS AND TECHNICIANS INVOLVED IN SAR SYSTEM TECHNIQUES.

[?] **SPOTLIGHT SYNTHETIC APERTURE RADAR** WALTER G. CARRARA, RON S. GOODMAN, RONALD M. MAJEWSKI, 1995-01-01 THE BOOK GIVES AN EXCELLENT THEORETICAL AND PRACTICAL BACKGROUND OF SAR IN GENERAL AND SPECIFICALLY OF SPOTLIGHT SAR. THE RICH EXPERIENCE OF THE AUTHORS IN SPOTLIGHT SAR PROCESSING IS REFLECTED BY A VERY DETAILED SUMMARY OF THE ASSOCIATED THEORY AS WELL AS A LOT OF SAR IMAGE EXAMPLES. THESE IMAGES ILLUSTRATE THE TECHNIQUES DESCRIBED IN THE BOOK AND PROVIDE A VALUABLE CONNECTION TO PRACTICE. THIS BOOK CAN BE HIGHLY RECOMMENDED TO ALL SCIENTISTS AND ENGINEERS INVOLVED IN SAR SYSTEM DESIGN AND SAR DATA EVALUATION.

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SYNTHETIC APERTURE RADAR J. PATRICK FITCH, 2012-12-06 RADAR, LIKE MOST WELL DEVELOPED AREAS, HAS ITS OWN VOCABULARY. WORDS LIKE DOPPLER FREQUENCY, PULSE COMPRESSION, MISMATCHED FILTER, CARRIER FREQUENCY, IN-PHASE, AND QUADRATURE HAVE SPECIFIC MEANING TO THE RADAR ENGINEER. IN FACT, THE WORD RADAR IS ACTUALLY AN ACRONYM FOR RADIO DETECTION AND RANGING. EVEN THOUGH THESE WORDS ARE WELL DEFINED, THEY CAN ACT AS ROAD BLOCKS WHICH KEEP PEOPLE WITHOUT A RADAR BACKGROUND FROM UTILIZING THE LARGE AMOUNT OF DATA, LITERATURE, AND EXPERTISE WITHIN THE RADAR COMMUNITY. THIS IS UNFORTUNATE BECAUSE THE USE OF DIGITAL RADAR PROCESSING TECHNIQUES HAS MADE POSSIBLE THE ANALYSIS OF RADAR SIGNALS ON MANY GENERAL PURPOSE DIGITAL COMPUTERS. OF SPECIAL INTEREST ARE THE SURFACE MAPPING RADARS, SUCH AS THE SEASAT AND THE SHUTTLE IMAGING RADARS, WHICH UTILIZE A TECHNIQUE KNOWN AS SYNTHETIC APERTURE RADAR (SAR) TO CREATE HIGH RESOLUTION IMAGES (PICTURES). THIS DATA APPEALS TO CARTOGRAPHERS, AGRONOMISTS, OCEANOGRAPHERS, AND OTHERS WHO WANT TO PERFORM IMAGE ENHANCEMENT, PARAMETER ESTIMATION, PATTERN RECOGNITION, AND OTHER INFORMATION EXTRACTION TECHNIQUES ON THE RADAR IMAGERY. THE FIRST CHAPTER PRESENTS THE BASICS OF RADAR PROCESSING: TECHNIQUES FOR CALCULATING RANGE (DISTANCE) BY MEASURING ROUND TRIP PROPAGATION TIMES FOR RADAR PULSES. THIS IS THE SAME TECHNIQUE THAT SIGHTSEERS USE WHEN CALCULATING THE WIDTH OF A CANYON BY TIMING THE ROUND TRIP DELAY USING ECHOES. IN FACT, THE CORRESPONDING APPROACH IN RADAR IS USUALLY CALLED THE PULSE ECHO TECHNIQUE.

SYNTHETIC APERTURE RADAR POLARIMETRY JAKOB J. VAN ZYL, 2011-10-14 THIS BOOK DESCRIBES THE APPLICATION OF POLARIMETRIC SYNTHETIC APERTURE RADAR TO EARTH REMOTE SENSING BASED ON RESEARCH AT THE NASA JET PROPULSION LABORATORY (JPL). THIS BOOK SYNTHESIZES ALL CURRENT RESEARCH TO PROVIDE PRACTICAL INFORMATION FOR BOTH THE NEWCOMER AND THE EXPERT IN RADAR POLARIMETRY. THE TEXT OFFERS A CONCISE DESCRIPTION OF THE MATHEMATICAL FUNDAMENTALS ILLUSTRATED WITH MANY EXAMPLES USING SAR DATA, WITH A MAIN FOCUS ON REMOTE SENSING OF THE EARTH. THE BOOK BEGINS WITH BASICS OF SYNTHETIC APERTURE RADAR TO PROVIDE THE BASIS FOR UNDERSTANDING HOW POLARIMETRIC SAR IMAGES ARE FORMED AND GIVES AN INTRODUCTION TO THE FUNDAMENTALS OF RADAR POLARIMETRY. IT GOES ON TO DISCUSS MORE ADVANCED POLARIMETRIC 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 A CHAPTER SUMMARIZING THE BASIC CALIBRATION ALGORITHMS. THE BOOK CONCLUDES WITH EXAMPLES OF APPLYING POLARIMETRIC ANALYSIS TO SCATTERING FROM ROUGH SURFACES, TO INFER SOIL MOISTURE FROM RADAR SIGNALS.

POLARIMETRIC SYNTHETIC APERTURE RADAR IRENA HAJNSEK, YVES-LOUIS DESNOS, 2021-03-24 THIS OPEN ACCESS BOOK FOCUSES ON THE PRACTICAL APPLICATION OF ELECTROMAGNETIC POLARIMETRY PRINCIPLES IN EARTH REMOTE SENSING WITH AN EDUCATIONAL PURPOSE. IN THE 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 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 THE REMOTE SENSING COMMUNITY BOOSTED ACTIVITY AND DEVELOPMENT IN POLARIMETRIC SAR APPLICATIONS, ALSO IN VIEW OF FUTURE MISSIONS. NUMEROUS EXPERIMENTS WITH REAL DATA FROM SPACEBORNE 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, AGRICULTURE, CRYOSPHERE, URBAN AND OCEANS.

PRINCIPLES OF SYNTHETIC APERTURE RADAR IMAGING KUN-SHAN CHEN, 2016-01-05 PRINCIPLES OF SYNTHETIC APERTURE RADAR IMAGING: A SYSTEM SIMULATION APPROACH DEMONSTRATES THE USE OF IMAGE SIMULATION FOR SAR. IT COVERS THE VARIOUS APPLICATIONS OF SAR (INCLUDING FEATURE EXTRACTION, TARGET CLASSIFICATION, AND CHANGE DETECTION), PROVIDES A COMPLETE UNDERSTANDING OF SAR PRINCIPLES, AND ILLUSTRATES THE COMPLETE CHAIN OF A SAR OPERATION.

SYNTHETIC APERTURE RADAR IMAGING MECHANISM FOR OIL SPILLS MAGED MARGHANY, 2019-08-21 SYNTHETIC APERTURE RADAR IMAGING MECHANISM FOR OIL SPILLS DELIVERS THE CRITICAL TOOL NEEDED TO UNDERSTAND THE LATEST TECHNOLOGY IN RADAR IMAGING OF OIL SPILLS, PARTICULARLY MICROWAVE RADAR AS A MAIN SOURCE TO UNDERSTAND ANALYSIS AND APPLICATIONS IN THE FIELD OF MARINE POLLUTION. FILLING THE GAP BETWEEN MODERN PHYSICS QUANTUM THEORY AND APPLICATIONS OF RADAR IMAGING OF OIL SPILLS, THIS REFERENCE IS PACKED WITH TECHNICAL DETAILS ASSOCIATED WITH THE POTENTIALITY OF SYNTHETIC APERTURE RADAR (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 WITH PRACTICAL SIMULATION TRAJECTORY MOVEMENTS OF OIL SPILLS USING RADAR IMAGES, THIS BOOK BRINGS AN EFFECTIVE NEW SOURCE OF TECHNOLOGY AND APPLICATIONS FOR TODAY'S OIL AND MARINE POLLUTION ENGINEERS. BRIDGES THE GAP BETWEEN THEORY AND APPLICATION OF THE TECHNIQUES INVOLVING OIL SPILL MONITORING HELPS READERS UNDERSTAND A NEW APPROACH TO FOUR-DIMENSIONAL AUTOMATIC DETECTION PROVIDES ADVANCED KNOWLEDGE ON IMAGE PROCESSING BASED ON INTELLIGENT LEARNING MACHINE ALGORITHMS AND NEW TECHNIQUES FOR DETECTION, SUCH AS QUANTUM AND MULTI-OBJECTIVE ALGORITHMS

MULTI-ANTENNA SYNTHETIC APERTURE RADAR WEN-QIN WANG, 2017-07-12 SYNTHETIC APERTURE RADAR (SAR) IS A WELL-KNOWN REMOTE SENSING TECHNIQUE, BUT CONVENTIONAL SINGLE-ANTENNA SAR IS INHERENTLY LIMITED BY THE MINIMUM ANTENNA AREA CONSTRAINT. ALTHOUGH THERE ARE STILL TECHNICAL ISSUES TO OVERCOME, MULTI-ANTENNA SAR OFFERS MANY BENEFITS, FROM IMPROVED SYSTEM GAIN TO INCREASED DEGREES-OF-FREEDOM AND SYSTEM FLEXIBILITY. MULTI-ANTENNA SYNTHETIC APERTURE RADAR EXPLORES THE POTENTIAL AND CHALLENGES OF USING MULTI-ANTENNA SAR IN MICROWAVE REMOTE SENSING APPLICATIONS. THESE APPLICATIONS INCLUDE HIGH-RESOLUTION IMAGING, WIDE-SWATH REMOTE SENSING,

GROUND MOVING TARGET INDICATION, AND 3-D IMAGING. THE BOOK PAYS PARTICULAR ATTENTION TO THE SIGNAL PROCESSING ASPECTS OF VARIOUS MULTI-ANTENNA SAR FROM A TOP-LEVEL SYSTEM PERSPECTIVE. EXPLORE RECENT EXTENSIONS OF SYNTHETIC APERTURE RADAR SYSTEMS THE BACKBONE OF THE BOOK IS A SERIES OF INNOVATIVE MICROWAVE REMOTE SENSING APPROACHES DEVELOPED BY THE AUTHOR. CENTERED AROUND MULTI-ANTENNA SAR IMAGING, THESE APPROACHES ADDRESS SPECIFIC CHALLENGES AND POTENTIAL PROBLEMS IN FUTURE MICROWAVE REMOTE SENSING. CHAPTERS EXAMINE SINGLE-INPUT MULTIPLE-OUTPUT (SIMO) MULTI-ANTENNA SAR, INCLUDING AZIMUTH AND ELEVATION MULTI-ANTENNA SAR, AND MULTIPLE-INPUT MULTIPLE-OUTPUT (MIMO) SAR. THE BOOK DETAILS THE CORRESPONDING SYSTEM SCHEME, SIGNAL MODELS, TIME/PHASE/SPATIAL SYNCHRONIZATION METHODS, AND HIGH-PRECISION IMAGING ALGORITHMS. IT ALSO INVESTIGATES THEIR POTENTIAL APPLICATIONS. INTRODUCTORY TUTORIALS AND NOVEL APPROACHES IN MULTI-ANTENNA SAR IMAGING RIGOROUS AND SELF-CONTAINED, THIS IS A UNIQUE REFERENCE FOR RESEARCHERS AND INDUSTRY PROFESSIONALS WORKING WITH MICROWAVE REMOTE SENSING, SAR IMAGING, AND RADAR SIGNAL PROCESSING. IN ADDITION TO NOVEL APPROACHES, THE BOOK ALSO PRESENTS TUTORIALS THAT SERVE AS AN INTRODUCTION TO MULTI-ANTENNA SAR IMAGING FOR THOSE WHO ARE NEW TO THE FIELD.

📖 **OPERATIONAL USE OF CIVIL SPACE-BASED SYNTHETIC APERTURE RADAR (SAR)** UNITED STATES. INTERAGENCY AD HOC WORKING GROUP ON SAR., 1996

📖 **IMAGING WITH SYNTHETIC APERTURE RADAR** DIDIER MASSONNET, JEAN-CLAUDE SOUYRIS, 2008-05 DESCRIBING A FIELD THAT HAS BEEN TRANSFORMED BY THE RECENT AVAILABILITY OF DATA FROM A NEW GENERATION OF SPACE AND AIRBORNE SYSTEMS, THE AUTHORS OFFER A SYNTHETIC GEOMETRICAL APPROACH TO THE DESCRIPTION OF SYNTHETIC APERTURE RADAR, ONE THAT ADDRESSES PHYSICISTS, RADAR SPECIALISTS, AS WELL AS EXPERTS IN IMAGE PROCESSING.

📖 **BISTATIC SYNTHETIC APERTURE RADAR** JIANYU YANG, 2022-01-20 BISTATIC SYNTHETIC APERTURE RADAR COVERS BISTATIC SAR IN A COMPREHENSIVE WAY, PRESENTING THEORY, METHOD AND TECHNIQUES, AS WELL AS THE MOST RECENT RESEARCH AND NEAR-FUTURE APPLICATIONS. THE BOOK BEGINS WITH IMAGING PRINCIPLES AND CHARACTERISTICS OF MONOSTATIC SAR, MOVING ON TO COMMON AND NOVEL PROBLEMS BEFORE PRESENTING THEORIES, METHODS AND EXPERIMENTAL SYSTEM DESIGN. THE TITLE PRESENTS THE DESIGN OF EXPERIMENTAL SYSTEMS, RESEARCH RESULTS AND EXPERIMENTAL VERIFICATION. IT GIVES KEY KNOWLEDGE FROM A LEADING RESEARCH GROUP, INCLUDING ONE OF THE EARLIEST BISTATIC SIDE-LOOKING SAR EXPERIMENTS AND THE FIRST BISTATIC FORWARD-LOOKING SAR EXPERIMENT IN THE WORLD THAT USED TWO AIRCRAFT. SIX CHAPTERS COVER IMAGING THEORY, IMAGING ALGORITHMS, PARAMETER ESTIMATION, MOTION COMPENSATION, SYNCHRONIZATION AND EXPERIMENTAL VERIFICATION. THE BOOK DESCRIBES PHYSICAL CONCEPTS SIMPLY AND CLEARLY AND PROVIDES CONCISE MATHEMATICAL DERIVATIONS. PRESENTS COMPREHENSIVE THEORY AND METHODS FOR BISTATIC SAR, INCLUDING THE DESIGN OF EXPERIMENTAL SYSTEMS AND VERIFICATION CONSIDERS DIFFERENT CONFIGURATIONS, INCLUDING TRANSLATIONAL VARIANT BISTATIC SAR AND BISTATIC FORWARD-LOOKING SAR GIVES INSIGHTS BASED ON A WORLD-LEADING RESEARCH PROGRAM INTO BISTATIC SAR, INCLUDING PRACTICAL TIPS ON THEORY AND METHOD COVERS NOVEL EXPERIMENTS, INCLUDING THE FIRST BISTATIC FORWARD-LOOKING SAR EXPERIMENT USING TWO AIRCRAFT OFFERS RESEARCHERS CLEAR DESCRIPTIONS OF PHYSICAL CONCEPTS AND CONCISE MATHEMATICAL DERIVATIONS TO HELP MASTER BISTATIC SAR

📖 **INVERSE SYNTHETIC APERTURE RADAR IMAGING WITH MATLAB ALGORITHMS** CANER OZDEMIR, 2021-03-24 BUILD YOUR KNOWLEDGE OF SAR/ISAR IMAGING WITH THIS COMPREHENSIVE AND INSIGHTFUL RESOURCE THE NEWLY REVISED SECOND EDITION OF INVERSE SYNTHETIC APERTURE RADAR IMAGING WITH MATLAB ALGORITHMS COVERS IN GREATER DETAIL THE FUNDAMENTAL AND ADVANCED TOPICS NECESSARY FOR A COMPLETE UNDERSTANDING OF INVERSE SYNTHETIC APERTURE RADAR (ISAR) IMAGING AND ITS CONCEPTS. DISTINGUISHED AUTHOR AND ACADEMICIAN, CANER 📖 ZDEMIR, DESCRIBES THE PRACTICAL ASPECTS OF ISAR IMAGING AND PRESENTS ILLUSTRATIVE EXAMPLES OF THE RADAR SIGNAL PROCESSING ALGORITHMS USED FOR ISAR IMAGING. THE TOPICS IN EACH CHAPTER ARE SUPPLEMENTED WITH MATLAB CODES TO ASSIST READERS IN BETTER UNDERSTANDING EACH OF THE PRINCIPLES DISCUSSED WITHIN THE BOOK. THIS NEW EDITION INCLUDES DISCUSSIONS OF THE MOST UP-TO-DATE TOPICS TO ARISE IN THE FIELD OF ISAR IMAGING AND ISAR HARDWARE DESIGN. THE BOOK PROVIDES A COMPREHENSIVE ANALYSIS OF ADVANCED TECHNIQUES LIKE FOURIER-BASED RADAR IMAGING ALGORITHMS, AND MOTION COMPENSATION TECHNIQUES ALONG WITH RADAR FUNDAMENTALS FOR READERS NEW TO THE SUBJECT. THE AUTHOR COVERS A WIDE VARIETY OF TOPICS, INCLUDING: RADAR FUNDAMENTALS, INCLUDING CONCEPTS LIKE RADAR CROSS SECTION, MAXIMUM DETECTABLE RANGE, FREQUENCY MODULATED CONTINUOUS WAVE, AND DOPPLER FREQUENCY AND PULSED RADAR THE THEORETICAL AND PRACTICAL ASPECTS OF SIGNAL PROCESSING ALGORITHMS USED IN ISAR IMAGING THE NUMERIC IMPLEMENTATION OF ALL NECESSARY ALGORITHMS IN MATLAB ISAR HARDWARE, EMERGING TOPICS ON SAR/ISAR FOCUSING ALGORITHMS SUCH AS BISTATIC ISAR IMAGING, POLARIMETRIC ISAR IMAGING, AND NEAR-FIELD ISAR IMAGING, APPLICATIONS OF SAR/ISAR IMAGING TECHNIQUES TO OTHER RADAR IMAGING PROBLEMS SUCH AS THRU-THE-WALL RADAR IMAGING AND GROUND-PENETRATING RADAR IMAGING PERFECT FOR GRADUATE STUDENTS IN THE FIELDS OF ELECTRICAL AND ELECTRONICS ENGINEERING, ELECTROMAGNETISM, IMAGING RADAR, AND PHYSICS, INVERSE SYNTHETIC APERTURE RADAR IMAGING WITH MATLAB ALGORITHMS ALSO BELONGS ON THE BOOKSHELVES OF PRACTICING RESEARCHERS IN THE RELATED AREAS LOOKING FOR A USEFUL RESOURCE TO ASSIST THEM IN THEIR DAY-TO-DAY PROFESSIONAL WORK.

📖 **SYNTHETIC APERTURE RADAR** JOHN C. CURLANDER, ROBERT N. McDONOUGH, 1992-04-16 THE USE OF SYNTHETIC APERTURE RADAR (SAR) REPRESENTS A NEW ERA IN REMOTE SENSING TECHNOLOGY. A COMPLETE HANDBOOK FOR ANYONE WHO MUST DESIGN AN SAR SYSTEM CAPABLE OF RELIABLY PRODUCING HIGH QUALITY IMAGE DATA PRODUCTS, FREE FROM IMAGE ARTIFACTS AND CALIBRATED IN TERMS OF THE TARGET BACKSCATTER COEFFICIENT. COMBINES FUNDAMENTALS UNDERLYING THE

SAR IMAGING PROCESS AND THE PRACTICAL SYSTEM ENGINEERING REQUIRED TO PRODUCE QUALITY IMAGES FROM A REAL SAR SYSTEM. BEGINNING WITH A BROAD OVERVIEW OF SAR TECHNOLOGY, IT GOES ON TO EXAMINE SAR SYSTEM CAPABILITIES AND COMPONENTS AND DETAIL THE TECHNIQUES REQUIRED FOR DESIGN AND DEVELOPMENT OF THE SAR GROUND DATA SYSTEM WITH EMPHASIS ON THE CORRELATION PROCESSING. INTENDED FOR SAR SYSTEM ENGINEERS AND RESEARCHERS, IT IS GENEROUSLY ILLUSTRATED FOR MAXIMUM CLARITY.

📖 **SYNTHETIC APERTURE RADAR SIGNAL PROCESSING WITH MATLAB ALGORITHMS** MEHRDAD SOUMEKH, 1999-04-27 AN UP-TO-DATE ANALYSIS OF THE SAR WAVEFRONT RECONSTRUCTION SIGNAL THEORY AND ITS DIGITAL IMPLEMENTATION WITH THE ADVENT OF FAST COMPUTING AND DIGITAL INFORMATION PROCESSING TECHNIQUES, SYNTHETIC APERTURE RADAR (SAR) TECHNOLOGY HAS BECOME BOTH MORE POWERFUL AND MORE ACCURATE. SYNTHETIC APERTURE RADAR SIGNAL PROCESSING WITH MATLAB ALGORITHMS ADDRESSES THESE RECENT DEVELOPMENTS, PROVIDING A COMPLETE, UP-TO-DATE ANALYSIS OF SAR AND ITS ASSOCIATED DIGITAL SIGNAL PROCESSING ALGORITHMS. THIS BOOK INTRODUCES THE WAVEFRONT RECONSTRUCTION SIGNAL THEORY THAT UNDERLIES THE BEST SAR IMAGING METHODS AND PROVIDES CLEAR GUIDELINES TO SYSTEM DESIGN, IMPLEMENTATION, AND APPLICATIONS IN DIVERSE AREAS-FROM AIRBORNE RECONNAISSANCE TO TOPOGRAPHIC IMAGING OF OCEAN FLOORS TO SURVEILLANCE AND AIR TRAFFIC CONTROL TO MEDICAL IMAGING TECHNIQUES, AND NUMEROUS OTHERS. ENABLING PROFESSIONALS IN RADAR SIGNAL AND IMAGE PROCESSING TO USE SYNTHETIC APERTURE TECHNOLOGY TO ITS FULLEST POTENTIAL, THIS WORK: * INCLUDES M-FILES TO SUPPLEMENT THIS BOOK THAT CAN BE RETRIEVED FROM THE MATHWORKS ANONYMOUS FTP SERVER AT [FTP://FTP.MATHWORKS.COM/PUB/BOOKS/SOUMEKH](ftp://ftp.mathworks.com/pub/books/soumekh) * PROVIDES PRACTICAL EXAMPLES AND RESULTS FROM REAL SAR, ISAR, AND CSAR DATABASES * OUTLINES UNIQUE PROPERTIES OF THE SAR SIGNAL THAT CANNOT BE FOUND IN OTHER INFORMATION PROCESSING SYSTEMS * EXAMINES SPOTLIGHT SAR, STRIPMAP SAR, CIRCULAR SAR, AND MONOPULSE SAR MODALITIES * DISCUSSES CLASSICAL SAR PROCESSING ISSUES SUCH AS MOTION COMPENSATION AND RADAR CALIBRATION

📖 **SYNTHETIC APERTURE RADAR PROCESSING** GIORGIO FRANCESCHETTI, RICCARDO LANARI, 2018-02-06 SYNTHETIC APERTURE RADAR PROCESSING 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 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 ALL SAR SCIENTISTS AND ENGINEERS WORKING IN THE FIELD. IT MAY BE USED AS THE BASIS FOR A COURSE ON SAR IMAGE GENERATION OR AS A REFERENCE BOOK ON REMOTE SENSING. IT CONTAINS A WIDE SPECTRUM OF INFORMATION PRESENTED WITH CLARITY AND RIGOR.

📖 **DIGITAL PROCESSING OF SYNTHETIC APERTURE RADAR DATA** IAN G. CUMMING, 2005

📖 **TRANSIONOSPHERIC SYNTHETIC APERTURE IMAGING** MIKHAIL GILMAN, ERICK SMITH, SEMYON TSYNKOV, 2017-04-13 THIS LANDMARK MONOGRAPH PRESENTS THE MOST RECENT MATHEMATICAL DEVELOPMENTS IN THE ANALYSIS OF IONOSPHERIC DISTORTIONS OF SAR IMAGES AND OFFERS INNOVATIVE NEW STRATEGIES FOR THEIR MITIGATION. AS A PREREQUISITE TO ADDRESSING THESE TOPICS, THE BOOK ALSO DISCUSSES THE RADAR AMBIGUITY THEORY AS IT APPLIES TO SYNTHETIC APERTURE IMAGING AND THE PROPAGATION OF RADIO WAVES THROUGH THE IONOSPHERIC PLASMA, INCLUDING THE ANISOTROPIC AND TURBULENT CASES. IN ADDITION, IT COVERS A HOST OF RELATED SUBJECTS, SUCH AS THE MATHEMATICAL MODELING OF EXTENDED RADAR TARGETS (AS OPPOSED TO POINT-WISE TARGETS) AND THE SCATTERING OF RADIO WAVES OFF THOSE TARGETS, AS WELL AS THE THEORETICAL ANALYSIS OF THE START-STOP APPROXIMATION, WHICH IS USED ROUTINELY IN SAR SIGNAL PROCESSING BUT OFTEN WITHOUT PROPER JUSTIFICATION. THE MATHEMATICS IN THIS VOLUME IS CLEAN AND RIGOROUS – NO ASSUMPTIONS ARE HIDDEN OR AMBIGUOUSLY STATED. THE RESULTING WORK IS TRULY INTERDISCIPLINARY, PROVIDING BOTH A COMPREHENSIVE AND THOROUGH EXPOSITION OF THE FIELD, AS WELL AS AN ACCURATE ACCOUNT OF A RANGE OF RELEVANT PHYSICAL PROCESSES AND PHENOMENA. THE BOOK IS INTENDED FOR APPLIED MATHEMATICIANS INTERESTED IN THE AREA OF RADAR IMAGING OR, MORE GENERALLY, REMOTE SENSING, AS WELL AS PHYSICISTS AND ELECTRICAL/ELECTRONIC ENGINEERS WHO DEVELOP/OPERATE SPACEBORNE SAR SENSORS AND PERFORM THE DATA PROCESSING. THE METHODS IN THE BOOK ARE ALSO USEFUL FOR RESEARCHERS AND PRACTITIONERS WORKING ON OTHER TYPES OF IMAGING. MOREOVER, THE BOOK IS ACCESSIBLE TO GRADUATE STUDENTS IN APPLIED MATHEMATICS, PHYSICS, ENGINEERING, AND RELATED DISCIPLINES. PRAISE FOR TRANSIONOSPHERIC SYNTHETIC APERTURE IMAGING: “I PERCEIVE THAT THIS TEXT WILL MARK A TURNING POINT IN THE FIELD OF SYNTHETIC APERTURE RADAR RESEARCH AND PRACTICE. I BELIEVE THIS TEXT WILL INSTIGATE A NEW ERA OF MORE RIGOROUS IMAGE FORMATION RELIEVING THE RESEARCH, DEVELOPMENT AND PRACTITIONER COMMUNITIES OF INCONSISTENT PHYSICAL ASSUMPTIONS AND NUMERICAL APPROACHES.” – RICHARD ALBANESE, SENIOR SCIENTIST, ALBANESE DEFENSE AND ENERGY DEVELOPMENT LLC

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