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Bistatic Radar Mikhail Cherniakov,2008-10-13 The impact of bistatic radar technology on remote sensing is increasing as bistatic systems cross the theoretical threshold into practical embodiment The wide spectrum of radar applications including space exploration defence transport aerospace and meteorology provides persistent impetus for this progress This book is dedicated to the more advanced studies in bistatic radar which are currently the subject of intensive research activity and development With contributions from the leading experts in the field of bistatic radar research this book collates the latest developments in the field focusing particularly on bistatic synthetic aperture radar BSAR and passive bistatic radar systems PBRS Within these two areas the text addresses the main BSAR topologies spaceborne BSAR airborne BSAR and space surface BSAR analyses the resurgent interest in and practical applications of PBRS introduces passive BSAR technology covers research of systems used in aircraft detection and tracking and passive radar remote sensing of the ionosphere and the upper atmosphere Bistatic Radar Emerging Technology is an invaluable resource for practising engineers and researchers involved in the design and implementation of advanced bistatic radar systems in aerospace communications defence transport and meteorology Following on from Bistatic Radar Principles and Practice it is also a comprehensive reference on the latest research for postgraduate students taking specialist courses in radar technology **Low Power UWB CMOS Radar Sensors** Hervé Paulino,Joao Goes,Adolfo Steiger Garção,2008-05-02 Low Power UWB CMOS Radar Sensors deals with the problem of designing low cost CMOS radar sensors The radar sensor uses UWB signals in order to obtain a reasonable target separation capability while maintaining a maximum signal frequency below 2 GHz This maximum frequency value is well within the reach of current CMOS technologies The use of UWB signals means that most of the methodologies used in the design of circuits and systems that process narrow band signals can no longer be applied Low Power UWB CMOS Radar Sensors provides an analysis between the interaction of UWB signals the antennas and the processing circuits This analysis leads to some interesting conclusions on the types of antennas and types of circuits that should be used A methodology to compare the noise performance of UWB processing circuits is also derived This methodology is used to analyze and design the constituting circuits of the radar transceiver In order to validate the design methodology a CMOS prototype is designed and experimentally evaluated **Advances in SAR: Sensors, Methodologies, and Applications** Timo Balz,Uwe Soergel,Mattia Crespi,Batuhan Osmanoglu,2018-10-22 This book is a printed edition of the Special Issue Advances in SAR Sensors Methodologies and Applications that was published in Remote Sensing Academic Press Library in Signal Processing Fulvio Gini,Nikolaos D. Sidiropoulos,2013-09-10 This second volume edited and authored by world leading experts gives a review of the principles methods and techniques of important and emerging research topics and technologies in communications and radar engineering With this reference source you will Quickly grasp a new area of research Understand the underlying principles of a topic and its application Ascertain how a topic relates to other areas and

learn of the research issues yet to be resolved Quick tutorial reviews of important and emerging topics of research in array and statistical signal processing Presents core principles and shows their application Reference content on core principles technologies algorithms and applications Comprehensive references to journal articles and other literature on which to build further more specific and detailed knowledge Edited by leading people in the field who through their reputation have been able to commission experts to write on a particular topic *Radar 2002* ,2002 A collection of the papers given at the RADAR Conference held in 2002 Wide Bandgap Semiconductor Based Micro/Nano Devices Jung-Hun Seo,2019-04-25 While group IV or III V based device technologies have reached their technical limitations e g limited detection wavelength range or low power handling capability wide bandgap WBG semiconductors which have band gaps greater than 3 eV have gained significant attention in recent years as a key semiconductor material in high performance optoelectronic and electronic devices These WBG semiconductors have two definitive advantages for optoelectronic and electronic applications due to their large bandgap energy WBG energy is suitable to absorb or emit ultraviolet UV light in optoelectronic devices It also provides a higher electric breakdown field which allows electronic devices to possess higher breakdown voltages This Special Issue seeks research papers short communications and review articles that focus on novel synthesis processing designs fabrication and modeling of various WBG semiconductor power electronics and optoelectronic devices **Advances in Bistatic Radar** Nicholas J. Willis,Hugh D. Griffiths,2007-06-30 This comprehensive reference updates bistatic and multistatic radar developments since the publication of Nicholas Willis seminal book Bistatic Radar published in 1991 and revised in 1995 The book is organized into two major sections Bistatic Multistatic Radar Systems and Bistatic Clutter and Signal Processing New and recently declassified military applications are documented Civil applications are detailed for the first time including commercial and scientific systems Several of the most honored radar engineers of this era provide expertise in each of these applications Professionals in radar and sonar will find this book a valuable resource **Applications of Space-Time Adaptive Processing** Richard Klemm,Institution of Electrical Engineers,2004-08-13 This text discusses various applications of space time adaptive processing including applications in OTH radar ground target tracking STAP in real world clutter environments jammer cancellation superresolution active sonar seismics and communications It is divided into two parts the first dealing with the classical adaptive suppression of airborne and spacebased radar clutter and the second comprising of miscellaneous applications in other fields such as communications underwater sound and seismics **Bistatic SAR / GISAR / FISAR Geometry, Signal Models and Imaging Algorithms** Andon Dimitrov Lazarov,Todor Pavlov Kostadinov,2013-12-11 Bistatic radar consists of a radar system which comprises a transmitter and receiver which are separated by a distance comparable to the expected target distance This book provides a general theoretical description of such bistatic technology in the context of synthetic aperture inverse synthetic aperture and forward scattering radars from the point of view of analytical geometrical and signal formation as well as processing theory Signal formation and image

reconstruction algorithms are developed with the application of high informative linear frequency and phase code modulating techniques and numerical experiments that confirm theoretical models are carried out The authors suggest the program implementation of developed algorithms A theoretical summary of the latest results in the field of bistatic radars is provided before applying an analytical geometrical description of scenarios of bistatic synthetic aperture inverse synthetic aperture and forward scattering radars with cooperative and non cooperative transmitters Signal models with linear frequency and phase code modulation are developed and special phase modulations with C A coarse acquisition and P precision of GPS satellite transmitters are considered The authors suggest Matlab implementations of all geometrical models and signal formation and processing algorithms Contents 1 Bistatic Synthetic Aperture Radar BSAR Survey 2 BSAR Geometry 3 BSAR Waveforms and Signal Models 4 BSAR Image Reconstruction Algorithms 5 Analytical Geometrical Determination of BSAR Resolution 6 BSAR Experimental Results 7 BSAR Matlab Implementation A general theoretical description of bistatic technology within the scope of synthetic aperture inverse synthetic aperture and forward scattering radars from the point of view of analytical geometrical and signal formation and processing theory Signal formation and image reconstruction algorithms are developed in this title with application of high informative linear frequency and phase code modulating techniques Numerical experiments that confirm theoretical models are carried out and the authors suggest program implementation for the algorithms developed *Smart Antennas for Wireless Communications* Frank Gross,2005-10-05 Smart antennas boost the power of a wireless network saving energy and money and greatly increasing the range of wireless broadband Smart Antennas is a rigorous textbook on smart antenna design and deployment **Proceedings of the ... International Symposium on Technology and the Mine Problem** ,2004 **Sea Clutter** Keith D. Ward,Simon Watts,Robert J.A. Tough,2006-06-21 Sea Clutter Scattering the K Distribution and Radar Performance examines the statistics of radar scattering from the sea surface in terms of their relevance to radar operating in a maritime environment including remote sensing surveillance and targeting applications A lot of the work in the book is based on the compound Kdistribution model for the amplitude statistics of sea clutter In addition the book addresses the specification of performance required by customers and the measurement of performance of systems supplied to customers **Computational Science – ICCS 2018** Yong Shi,Haohuan Fu,Yingjie Tian,Valeria V. Krzhizhanovskaya,Michael Harold Lees,Jack Dongarra,Peter M. A. Sloot,2018-06-11 The three volume set LNCS 10860 10861 10862 constitutes the proceedings of the 18th International Conference on Computational Science ICCS 2018 held in Wuxi China in June 2018 The total of 155 full and 66 short papers presented in this book set was carefully reviewed and selected from 404 submissions The papers were organized in topical sections named Part I ICCS Main Track Part II Track of Advances in High Performance Computational Earth Sciences Applications and Frameworks Track of Agent Based Simulations Adaptive Algorithms and Solvers Track of Applications of Matrix Methods in Artificial Intelligence and Machine Learning Track of Architecture Languages Compilation and Hardware

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frequency domains but at the same time is a multi dimensional integrated system including a spatial domain for transmitting and receiving electromagnetic waves As a result of the enormous technological advancements of the pioneers actively discussed in this book research and development in multi dimensional undeveloped areas is expected to continue This book contains state of the art work that should guide your research The Use of Remote Sensing in Hydrology Frédéric Frappart,Luc Bourrel,2018-06-01 This book is a printed edition of the Special Issue The Use of Remote Sensing in Hydrology that was published in Water Secure Localization and Time Synchronization for Wireless Sensor and Ad Hoc Networks Radha Poovendran,Cliff Wang,Sumit Roy,2007-12-03 Localization is a critical process in mobile ad hoc networks and wireless sensor networks Wireless sensor node or MANET devices need to know the network s location or its relative location with respect to the rest of the network neighbors However due to the open spectrum nature of wireless communication it is subject to attacks and intrusions Hence the wireless network synchronization needs to be both robust and secure Furthermore issues such as energy constraints and mobility make the localization process even more challenging Secure Localization and Time Synchronization for Wireless Sensor and Ad Hoc Networks presents the latest research results in the area of secure localization for both wireless mobile ad hoc networks and wireless sensor networks *Tracking and Sensor Data Fusion* Wolfgang Koch,2013-09-20 Sensor Data Fusion is the process of combining incomplete and imperfect pieces of mutually complementary sensor information in such a way that a better understanding of an underlying real world phenomenon is achieved Typically this insight is either unobtainable otherwise or a fusion result exceeds what can be produced from a single sensor output in accuracy reliability or cost This book provides an introduction Sensor Data Fusion as an information technology as well as a branch of engineering science and informatics Part I presents a coherent methodological framework thus providing the prerequisites for discussing selected applications in Part II of the book The presentation mirrors the author s views on the subject and emphasizes his own contributions to the development of particular aspects With some delay Sensor Data Fusion is likely to develop along lines similar to the evolution of another modern key technology whose origin is in the military domain the Internet It is the author s firm conviction that until now scientists and engineers have only scratched the surface of the vast range of opportunities for research engineering and product development that still waits to be explored the Internet of the Sensors

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