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Radar, Sonar & Navigation



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Radar, Sonar & Navigation - Highlights

Biologically-Inspired Radar and Sonar: Lessons from nature

Editors: Alessio Balleri, Cranfield University, UK; Hugh Griffiths, University College London, UK; and Chris Baker, Aveillant, UK

Nature presents fascinating examples of active sensing, which is used in nature to carry out many different tasks such as navigation, collision avoidance and selection, identification and attack of prey. This book describes how these sophisticated natural sensing techniques can be applied to radar and sonar systems to improve their performance. With contributions from an international team of leading researchers, this is essential reading for radar and sonar practitioners in academia and research at governmental and industrial organisations.

2017 / 272pp / £100 / \$160

Print SBRA5140 / 978-1-61353-235-5

eBook SBRA514E / 978-1-61353-236-2



Novel Radar Techniques and Applications

Volume 1: Real Aperture Array Radar, Imaging Radar, and Passive and Multistatic Radar

Volume 2: Waveform Diversity and Cognitive Radar, and Target Tracking and Data Fusion

Editors: Richard Klemm, Fraunhofer FHR, Germany; Ulrich Nickel, Fraunhofer Institute for Communication, Information Processing and Ergonomics (FKIE), Germany; Christoph Gierull, Defence R&D Canada, Canada; Pierfrancesco Lombardo, DIET University of Rome 'La Sapienza', Italy ; Hugh Griffiths, University College London, UK; Wolfgang Koch, Fraunhofer FHR, Germany

This 2-volume set presents the state-of-the-art in advanced radar, with emphasis on ongoing novel research and development and contributions from an international team of leading radar experts. Each section gives an overview of the latest research and perspectives of the future, and includes a number of chapters dedicated to specific techniques in conjunction with existing operational, experimental or conceptual applications. Volume 1 covers Real Aperture Array Radar, Imaging Radar, and Passive and Multistatic Radar; Volume 2 covers Waveform Diversity and Cognitive Radar, and Target Tracking and Data Fusion

Vol 1: 2017 / 952pp / £130 / \$195

Print SBRA512A / 978-1-61353-225-6

eBook SBRA512F / 978-1-61353-227-0

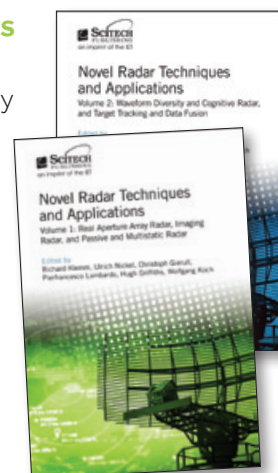
Vol 2: 2017 / 552pp / £130 / \$195

Print SBRA512B / 978-1-61353-226-3

eBook SBRA512G / 978-1-61353-228-7

Set: 2017 / £250 / \$395

Print SBRA512X / 978-1-61353-229-4



Photonics for Radar Networks and Electronic Warfare Systems

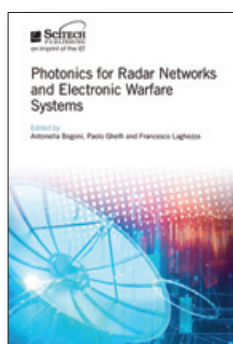
Editors: Antonella Bogoni & Francesco Laghezza, National Inter-university Consortium for Telecommunications, Italy

This is the first book to describe the potential for microwave photonics in radar and electronic warfare systems. It covers basic concepts and functions (RF transport in optical fibre, photonics-based RF signal generation/upconversion and analogue-to-digital conversion/downconversion, optical beam forming and optical RF filtering). It compares performance with conventional systems, describes their impact on digital signal processing, and explores integration issues. This book is essential reading for designers and researchers of radar and electronic warfare systems.

2019 / 248pp / £110 / \$145

Print SBRA5160 / 978-1-78561-376-0

eBook SBRA516E / 978-1-78561-377-7



Radar and Communication Spectrum Sharing

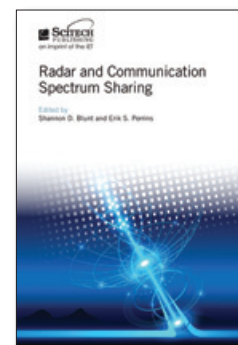
Editors: Shannon D. Blunt & Erik S. Perrins, University of Kansas, USA

This book addresses solutions to the growing conflict over the use of the radio-frequency spectrum by different systems such as radar and consumer use for wireless communications, with an emphasis on identifying the technology gaps for practical realization of spectrum sharing and the regulatory and measurement compliance aspects of this problem.

2018 / 864pp / £145 / \$190

Print SBRA5150 / 978-1-78561-357-9

eBook SBRA515E / 978-1-78561-358-6



Shadowing Function from Randomly Rough Surfaces: Derivation and applications

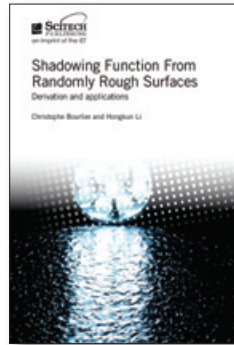
Authors: Christophe Bourlier & Hongkun Li, National Center for Scientific Research (CNRS), France & Ohio State University, USA

This title presents an overview of theory and recent advances concerning the shadowing function, an important element in the simulation and calculation of electromagnetic waves scattering at randomly rough surfaces. The authors address derivation of the shadowing function, helping researchers to understand the theoretical aspects of the problem, while applications of the shadowing function are discussed to show how it is applied to real problems. Ideal for graduate students and researchers working on high frequency scattering, infrared radiation, reflectivity and ray-tracing techniques from rough surfaces.

2019 / 240pp / £110 / \$145

Print SBRA5190 / 978-1-78561-535-1

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Systems Engineering for Ethical Autonomous Systems

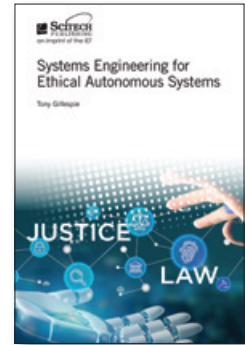
Author: Tony Gillespie, University College London, UK

Written for researchers and students of systems modelling in academia, industry and the military/defence sector, this is the first book on the emerging topic of ethical engineering for autonomous systems. It presents proven system engineering techniques, showing how generic engineering requirements can be derived from ethical/legal considerations and then turned into systems requirements. The book then shows how these requirements can be used as a basis for system procurement, engineering design and system testing.

2019 / 512pp / £130 / \$170

Print SBRA5170 / 978-1-78561-372-2

eBook SBRA517E / 978-1-78561-373-9



Tactical Persistent Surveillance Radar with Applications

Author: David Lynch, Jr., DL Sciences, Inc., Henderson, Nevada, USA

This book introduces technologists to the essential elements of persistent surveillance of tactical targets from both a hardware and software point of view, using simple Mathcad, Excel and Basic examples with real data. It is based on the type of surveillance done by drones like Scan Eagle, Predator, Reaper, Global Hawk, and manned aircraft like U-2, ASTOR, and JSTARS as well as spacecraft. The general topic is cellphone and datalink intercept, ground moving target radar, synthetic aperture radar, navigation, tracking, electronic scanning and cueing electro-optical sensors for activity based surveillance.

2018 / 496pp / £110 / \$160

Print SBRA5240 / 978-1-78561-650-1

eBook SBRA524E / 978-1-78561-651-8



The Impact of Cognition on Radar Technology

Editors: Alfonso Farina, Antonio De Maio & Simon Haykin, SELEX-Sistemi Integrati, Rome, Italy

This book tackles the application of cognitive concepts to phased array radar systems for improved surveillance. It balances practical aspects with a rigorous mathematical approach and features many numerical study cases. The book also examines discoveries outside the radar community, such as breakthroughs in neuroscience. A list of common symbols, extensive cross-referencing and comprehensive references significantly enhance the book, making it invaluable as a reference for practitioners, academics and students in the area.

2017 / 312pp / £100 / \$160

Print SBRA5200 / 978-1-78561-580-1

eBook SBRA520E / 978-1-78561-581-8





Radars, Sonar & Navigation - Forthcoming

to be published in 2020 and 2021

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Advanced Sparsity-Driven Models and Methods for Radar Applications	Li	£115.00	\$150.00	978-1-83953-075-3	978-1-83953-076-0	SBRA535
Autonomous Underwater Vehicles: Design and practice	Ehlers (Ed)	£140.00	\$185.00	978-1-78561-703-4	978-1-78561-704-1	SBRA525
Deep Neural Network Design for Radar Applications	Gurbuz (Ed)	£125.00	\$160.00	978-1-78561-852-9	978-1-78561-853-6	SBRA529
Electronic Scanned Array Design	Williams	£120.00	\$155.00	978-1-78561-929-8	978-1-78561-930-4	SBRA526
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Novel Radar Techniques and Applications: Volume 1: Real Aperture Array Radar, Imaging Radar, and Passive and Multistatic Radar	Klemm, Nickel, Gierull, Lombardo, Griffiths & Koch (Eds)	£130.00	\$195.00	978-1-61353-225-6	978-1-61353-227-0	SBRA512A
Novel Radar Techniques and Applications: Volume 2: Waveform Diversity and Cognitive Radar, and Target Tracking and Data Fusion	Klemm, Nickel, Gierull, Lombardo, Griffiths & Koch (Eds)	£130.00	\$195.00	978-1-61353-226-3	978-1-61353-228-7	SBRA512B
Novel Radar Techniques and Applications (2-volume set)	Klemm, Nickel, Gierull, Lombardo, Griffiths & Koch (Eds)	£250.00	\$395.00	978-1-61353-229-4	N/A	SBRA512X
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