



# An Introduction to Passive Radar (Artech House Radar)

*By Hugh D. Griffiths, Christopher J. Baker*

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Developed by recognized experts in the field, this first-of-its-kind resource introduces the basic principles of passive radar technology and provides an overview of recent developments in this field and existing real passive radar systems. This book explains how passive radar works, how it differs from the active type, and demonstrates the benefits and drawbacks of this novel technology. Properties of illuminators, including ambiguity functions, digital vs. analog, digitally-coded waveforms, vertical-plane coverage, and satellite-borne and radar illuminators are explored.

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## **Editorial Review**

### **Review**

If I was to buy one book on the subject of passive radar, this is the one I would choose. Comprehensive, practical, accessible and a perfect springboard into the wider published literature, I highly recommend it. --  
Dr. Paul Howland, Chief of Command and Control Services, NATO Communications and Information Agency

This is a comprehensive book on passive radar and bistatic technology, introducing the basic principles and the key technologies of performance prediction, detection and tracking of passive radar, and the future developments and applications and the latest technical progress in recent years. In particular, the core technology of bistatic radars discussed and compared, which provides a good overview and coverage of adaptive and block processing schemes, and interference suppression approaches for passive radar system. In addition, this book also introduces the application of bistatic passive radar system paradigm, including kinds of illuminators and various processing cases, which will provide an important technical support and reference for the design and processing of the novel passive radar system.

The book will most help the readers to obtain a solid foundation in the fundamental properties and a comprehensive understanding of the basic principles of passive radar system, high capabilities to solve the practical problems in passive radar application. This monograph can be a powerful reference for relative researchers from academia and industry to develop practical applications or exploit the academic essence of passive radar system. --Long, Teng, CIE Fellow, IET Fellow, IEEE Senior Member, Assistant President, Beijing Institute of Technology, Beijing, China

### **About the Author**

Hugh D. Griffiths hold the THALES/Royal Academy Chair of RF Sensors at University College London, UK. He received his Ph.D. and his D.Sc. Eng from University College London. He received his MA degree in physics from Oxford University, UK. Christopher J. Baker is chief technology officer with Aveillant Ltd. in Cambridge, UK. Previously he was the Ohio Research Scholar in Integrated Sensor Systems at Ohio State University. He received his Ph.D. and B.Sc. in applied physics from the University of Hull, UK.

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