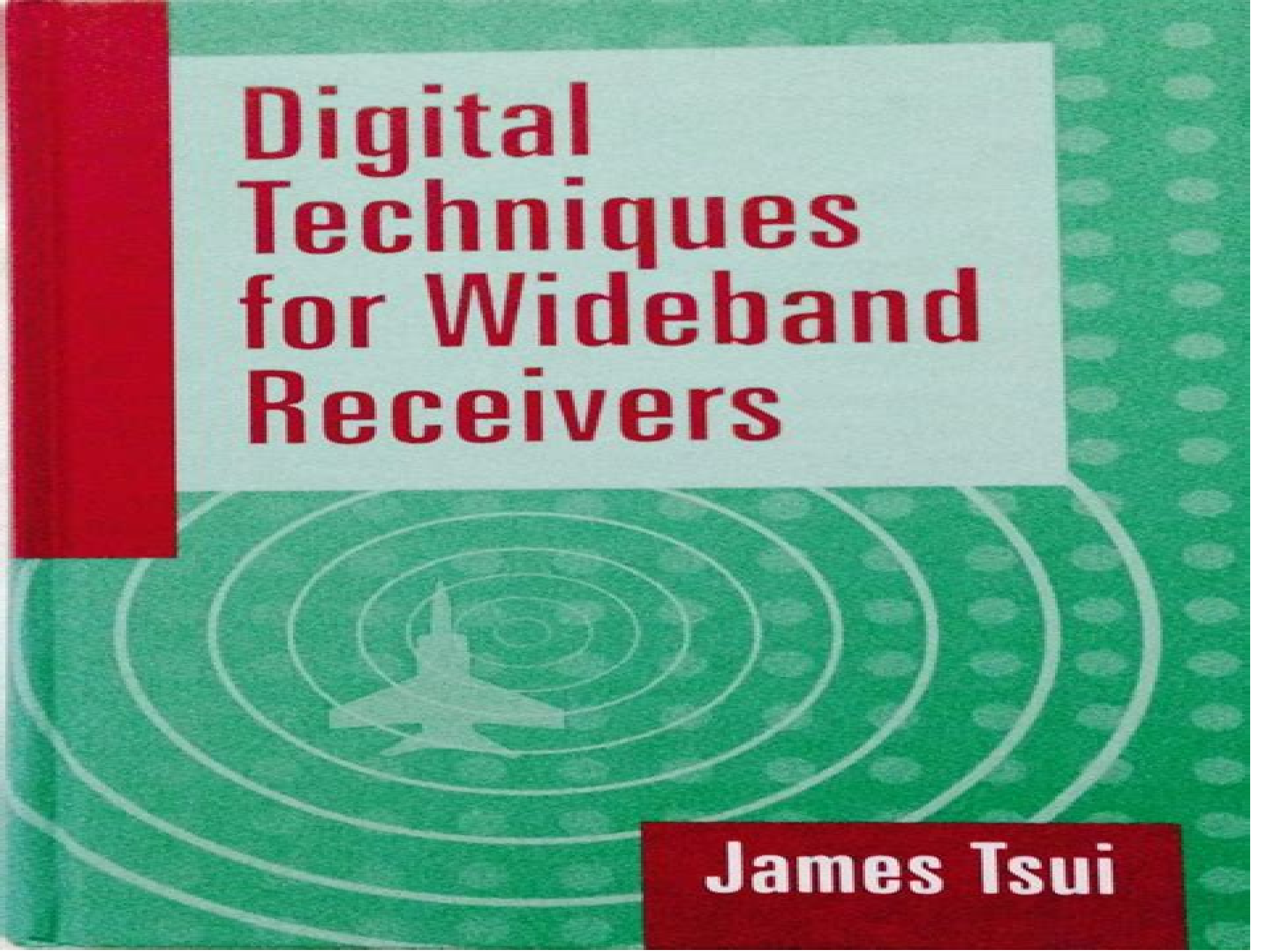


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Digital Techniques for Wideband Receivers

James Tsui

Digital Techniques For Wideband Receivers Electromagnetics And Radar

**Bassem R. Mahafza, Scott C.
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Digital Techniques for Wideband Receivers James B. Tsui, 2004-06-30 This book is a current comprehensive design guide for your digital processing work with today's complex receiver systems. This book brings you up to date with the latest information on wideband electronic warfare receivers, the ADC testing procedure, frequency channelization, and decoding schemes, and the operation of monobit receivers.

Handbook of Radar Signal Analysis Bassem R. Mahafza, Scott C. Winton, Atef Z. Elsherbeni, 2021-08-16 This new handbook on radar signal analysis adopts a deliberate and systematic approach. It uses a clear and consistent level of delivery while maintaining strong and easy-to-follow mathematical details. The emphasis of this book is on radar signal types and their relevant signal processing, and not on radar systems hardware or components. This handbook serves as a valuable reference to a wide range of audience. More specifically, college-level students practicing radar engineers, as well as casual readers of the subject, are the intended target audience of the first few chapters of this book. As the book chapters progress, these grow in complexity and specificity. Accordingly, later chapters are intended for practicing engineers, graduate college students, and advanced readers. Finally, the last few chapters contain several special topics on radar systems that are both educational and scientifically entertaining to all readers. The presentation of topics in this handbook takes the reader on a scientific journey whose major landmarks comprise the different radar subsystems and components. In this context, the chapters follow the radar signal along this journey from its birth to the end of its life. Along the way, the different relevant radar subsystems are analyzed and discussed in great detail. The chapter contributors of this new handbook comprise experienced academia members and practicing radar engineers. Their combined years of academic and real-world experiences are in excess of 175. Together, they bring a unique, easy-to-follow mix of mathematical and practical presentations of the topics discussed in this book. See the Chapter Contributors section to learn more about these individuals.

[An Introduction to Electronic Warfare; from the First Jamming to Machine Learning Techniques](#) Chi-Hao Cheng, James Tsui, 2022-09-01 Since its creation at the beginning of World II, radars have forever transformed the practice of modern warfare. The evolution of countermeasure

conducted by electronic warfare systems against radars and radars corresponding counter countermeasures is an intriguing technical subject This book provides a very accessible introduction to a broad range of radar and electronic warfare technologies The subjects covered in this book range from early radar development to later technologies such as stealthy techniques low probability of intercept radar and machine learning Historical events are used to illustrate the principles of electronic warfare and to help readers to apprehend contexts under which radars and corresponding electronic warfare techniques were developed

Program Solicitation, 2002 *Directed Energy System Performance Prediction* Graham V. Weinberg, 2023-08-31 This book presents a unique and comprehensive introduction to performance prediction of directed energy DE systems using mathematical modeling frameworks with focus on high power radio frequency and high energy laser performance It provides system designers with a means for predicting DE system performance and measuring the required power levels necessary to neutralize targets including UAVs and other unmanned swarms The book begins with a systematic and concise overview of DE systems including its historical roots You will then learn how to develop effective mathematical models and understand how to use these models to implement safer and efficient use of DE systems in various scenarios A special section is devoted to examples and attributes of unmanned systems since these are viewed as primary targets suitably disabled by DE systems There is also an extensive survey of the relevant tools of mathematics and physics for DE systems together with a series of pertinent references you can follow for further information The final section of the book outlines potential future research directions that interested researchers are encouraged to pursue With its exclusive and unmatched coverage of predictive modeling for DE systems and performance this is an important book for engineers and operators working in the defense industry including government and private contractors as well as research practitioners at universities and engineering organizations worldwide working in the field of DE system performance

Developing Digital RF Memories and Transceiver Technologies for Electromagnetic Warfare Phillip E. Pace, 2022-05-31 This book provides a comprehensive resource and thorough treatment in the latest development of Digital RF Memory DRFM technology and their key role in maintaining dominance over the electromagnetic spectrum Part I discusses the use of advanced technology to design transceivers for spectrum sensing using unmanned systems to dominate the electromagnetic spectrum Part II uses artificial intelligence and machine learning to enable modern spectrum sensing and detection signal processing for electronic support and electronic attack Another key contribution is examination of counter DRFM techniques DRFM and transceiver design details and examples are provided along with the MATLAB software allowing the reader to construct their own embedded DRFM transceivers for unmanned systems It examines the design trade offs in developing multiple structured false target synthesis DRFM architectures and aids in developing counter DRFM techniques and distinguish false target from real ones Written by an expert in the field and including MATLAB design software this is the only comprehensive book written on the subject of DRFM

Advanced Ultrawideband Radar James D. Taylor, 2016-12-19 This book presents the latest

theory developments and applications related to high resolution materials penetrating sensor systems An international team of expert researchers explains the problems and solutions for developing new techniques and applications Subject areas include ultrawideband UWB signals propagation and scattering materials penetrating radar techniques for small object detection and imaging biolocation using holographic techniques tomography medical applications nondestructive testing methods electronic warfare principles through the wall radar propagation effects and target identification through measuring the target return signal spectrum changes

Ultra-Wideband, Short-Pulse Electromagnetics 6 Eric L. Mokole, Mark Kragalott, Karl R. Gerlach, 2003-12-31 Ultra Wideband Short Pulse Electromagnetics 6 was held at the American Electromagnetics 2002 conference June 3-7 2002 at the U S Naval Academy in Annapolis Maryland Topics include UWB Radar Systems UWB Antennas Scattering Pulsed Power Short Pulse Measurement Techniques Time Domain Computation Techniques Time Domain Signal Processing UWB Polarimetry UWB Sensing of Terrain Wavelets Target Detection Propagation Underground Electromagnetic Theory New Canonical Problems Benchmark Solutions Signal Processing

Photonic Sensing Gaozhi Xiao, Wojtek J. Bock, 2012-10-02 PHOTONIC SENSING A cutting edge look at safety and security applications of photonic sensors With its many superior qualities photonic sensing technology is increasingly used in early detection and early warning systems for biological hazards structural flaws and security threats Photonic Sensing provides for the first time a comprehensive review of this exciting and rapidly evolving field focusing on the development of cutting edge applications in diverse areas of safety and security from biodetection to biometrics The book brings together contributions from leading experts in the field fostering effective solutions for the development of specialized materials novel optical devices and networking algorithms and platforms A number of specific areas of safety and security monitoring are covered including background information operation principles analytical techniques and applications Topics include Document security and structural integrity monitoring as well as the detection of food pathogens and bacteria Surface plasmon sensors micro based cytometry optofluidic techniques and optical coherence tomography Optic fiber sensors for explosive detection and photonic liquid crystal fiber sensors for security monitoring Photonics assisted frequency measurement with promising electronic warfare applications An invaluable multidisciplinary resource for researchers and professionals in photonic sensing as well as safety and security monitoring this book will help readers jump start their own research and development in areas of physics chemistry biology medicine mechanics electronics and defense

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