



# Digital Techniques for Wideband Receivers

3rd Edition

James Tsui and Chi-Hao Cheng

# Book Digital Techniques Wideband Receivers Electromagnetics

**James D. Taylor**



### **Book Digital Techniques Wideband Receivers Electromagnetics:**

*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     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     Digital

Techniques for Wideband Receivers James Tsui, Chi-Hao Cheng, 2015-10-30 *Digital Techniques for Wideband Receivers* is widely recognized as the definitive design guide on digital processing work with today's complex receiver systems This third edition brings readers up to date with the latest information on wideband electronic warfare receivers and includes new chapters on the detection of FM and BPSK radar signals analog to information time reversal filter monobit receivers with improved instantaneous dynamic range and it offers insights on building electronic warfare receivers From fundamental concepts and procedures to recent technology advances in digital receivers readers get practical solutions to important wideband receiver problems This book has been updated with many of the latest concepts to help users design receivers that are relevant for today's electronic warfare systems It will be an ideal reference for defense digital signal processing engineers in government and industry     **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      **American Book Publishing Record** ,2001      **Ultrawideband Radar** James D. Taylor,2017-12-19 Providing a practical review of the latest technology in the field Ultrawideband Radar Applications and Design presents cutting edge advances in theory design and practical applications of ultrawideband UWB radar This book features contributions from an international team of experts to help readers learn about a wide range of UWB topics including History of the technology American and European governmental regulations and key definitions Nonsinusoidal wave propagation theory Random signal radar Object detection by ground permittivity measurements Large target backscattering effects Medical applications Large current radiator antenna design Materials penetrating theory Radar signal processing Weak signal detection methods Holographic and real time radar imaging This book s contributors use practical information to illustrate the latest theoretical developments and demonstrate UWB radar principles through case studies Radar system engineers will find ideas for precision electronic sensing systems for use in medical security industrial construction and geophysical applications as well as those used in archeological forensic and transportation operations      **Electromagnetic Composites Handbook, Second Edition** Rick Moore,2016-04-18 Theoretical computational and experimental electromagnetic modeling and characterization This engineering and scientific handbook offers extensive coverage of electromagnetic modeling and characterization of composite materials from the theoretical computational and experimental points of view You will get unique data for non conducting dielectrics semiconducting conducting and magnetic materials and composites composed of two or more molecularly distinct compounds The goal of the book is to contribute to current and visionary electromagnetic composite applications and extend the existing database for composites Electromagnetic Composites Handbook Models Measurement and Characterization is presented in a clear hierarchical style progressing from basic concepts through simple and more complex models and finally to data verifying the models Provides a large collection of tabulated data for more than 300 complex composite materials Information presented will aid in the development of multifunctional material designs The data is a direct extension from Arthur Von Hippel s landmark Dielectric Materials and Application      *Microwave Journal* ,2001

**Electromagnetic Compatibility Handbook** Norman Violette,2013-12-01      **Delay-Doppler Communications** Yi Hong,Tharaj Thaj,Emanuele Viterbo,2022-02-11 Orthogonal Frequency Division Multiplexing OFDM has been the waveform of choice for most wireless communications systems in the past 25 years This book addresses the what comes next question by presenting the recently proposed waveform known as Orthogonal Time Frequency Space OTFS which offers a better alternative for high mobility environments The OTFS waveform is based on the idea that the mobile wireless channels can be effectively modelled in the delay Doppler domain This domain provides a sparse representation closely resembling the physical geometry of the wireless channel The key physical parameters such as relative velocity and distance of the reflectors with respect to the receiver can be considered roughly invariant in the duration of a frame up to a few milliseconds This

enables the information symbols encoded in the delay Doppler domain to experience a flat fading channel even when they are affected by multiple Doppler shifts present in high mobility environments Delay Doppler Communications Principles and Applications covers the fundamental concepts and the underlying principles of delay Doppler communications Readers familiar with OFDM will be able to quickly understand the key differences in delay Doppler domain waveforms that can overcome some of the challenges of high mobility communications For the broader readership with a basic knowledge of wireless communications principles the book provides sufficient background to be self contained The book provides a general overview of future research directions and discusses a range of applications of delay Doppler domain signal processing This is the first book on delay Doppler communications It is written by three of the leading authorities in the field It includes a wide range of applications With this book the reader will be able to Recognize the challenges of high mobility channels affected by both multipath and multiple Doppler shifts in physical layer waveform design and performance Understand the limitations of current multicarrier techniques such as OFDM in high mobility channels Recognize the mathematical and physical relations between the different domains for representing channels and waveforms time frequency time delay delay Doppler Understand the operation of the key blocks of a delay Doppler modulator and demodulator both analytically and by hands on MATLAB examples Master the special features and advantages of OTFS with regard to detection channel estimation MIMO and multiuser MIMO Realize the importance of delay Doppler communications for current and future applications e g 6G and beyond

*Scientific and Technical Aerospace Reports*, 1987

**Telecommunications Engineer's Reference Book** Fraidoon Mazda, 2014-06-28 Telecommunications Engineer's Reference Book maintains a balance between developments and established technology in telecommunications This book consists of four parts Part 1 introduces mathematical techniques that are required for the analysis of telecommunication systems The physical environment of telecommunications and basic principles such as the teletraffic theory electromagnetic waves optics and vision ionosphere and troposphere and signals and noise are described in Part 2 Part 3 covers the political and regulatory environment of the telecommunications industry telecommunication standards open system interconnect reference model multiple access techniques and network management The last part deliberates telecommunication applications that includes synchronous digital hierarchy asynchronous transfer mode integrated services digital network switching systems centrex and call management This publication is intended for practicing engineers and as a supplementary text for undergraduate courses in telecommunications

**Techniques and System Design of Radar Active Jamming** Guangfu Tang, Yifeng Cai, Rongbing Gan, Yaodong Zhao, 2023-02-20 This book serves as a handbook for radar active jamming system designers in which design principles and methods are introduced in detail The book starts from the basic concept and then discusses requirements analysis type selection key indicators description and design methods of radar active jamming system and each subsystem step by step The content is expressed in an intelligible way and hence it is easy to follow even for beginners in this area Since

the authors of this book are all experts and have designed plenty of real systems their book certainly helps new engineers deal with different kinds of problems encountered while designing a radar active jamming system      **Compressive Sensing Based Algorithms for Electronic Defence** Amit Kumar Mishra,Ryno Strauss Verster,2016-12-22 This book details some of the major developments in the implementation of compressive sensing in radio applications for electronic defense and warfare communication use It provides a comprehensive background to the subject and at the same time describes some novel algorithms It also investigates application value and performance related parameters of compressive sensing in scenarios such as direction finding spectrum monitoring detection and classification      **The British National Bibliography** Arthur James Wells,2002      **Index to IEEE Publications** Institute of Electrical and Electronics Engineers,1995 Issues for 1973 cover the entire IEEE technical literature      **Books in Print Supplement** ,2002

*Library Journal* ,2003 Includes beginning Sept 15 1954 and on the 15th of each month Sept May a special section School library journal ISSN 0000 0035 called Junior libraries 1954 May 1961 Also issued separately      *Ultra Wideband Demystified Technologies, Applications, and System Design Considerations* Sunil Jogi,Manoj Choudhary,2022-09-01 Ultra Wideband Demystified Technologies Applications and System Design Considerations is a comprehensive text for emerging high speed short range wireless technology of Ultra Wideband It provides background concepts and information on evolving standards and their development efforts radio technology practical system design implementation and real life applications The book also deliberates on the regulatory frameworks security aspects and power management techniques essential to Ultra Wideband usage in consumer devices like portable handheld mobile devices Important topics as UWB common radio usage for adapting to different existing new applications and upper layer protocols like Wireless USB are also discussed

ContentsAbstract Introduction to Short Range Wireless Introduction to Ultra Wideband Evolution of UWB Standards Physical Layer Medium Access Layer Advanced MAC Features UWB System Design Adaptation to Multiple Applications Wireless USB Converging Marketplace ReferencesForewordThis book is very timely unique and fresh in its approach coming from engineers who have been involved in system design and standard development stages In particular the book stands out amongst other literature available because it highlights system designer s viewpoints and because of it covering the whole gamut of technology from practitioner s viewpoints I would strongly recommend this book to System Designers Practicing Engineers Researchers in Academia and Industry Product Marketing and Technical strategists for a comprehensive reading on the emerging UWB technologies I commend Sunil Jogi and Manoj Choudhary for a very timely contribution Bart Vertenten Chief Architect Connectivity NXP Semiconductors      **Wireless Communications** Andreas F. Molisch,2022-11-15 An in depth and comprehensive treatment of wireless communication technology ranging from the fundamentals to the newest research results The expanded and completely revised Third Edition of Wireless Communications delivers an essential text in wireless communication technology that combines mathematical descriptions with intuitive explanations of the physical facts

that enable readers to acquire a deep understanding of the subject This latest edition includes brand new sections on cutting edge research topics such as massive MIMO polar codes heterogeneous networks non orthogonal multiple access as well as 5G cellular standards WiFi 6 and Bluetooth Low Energy Together with the re designed descriptions of fundamentals such as fading OFDM and multiple access it provides a thorough treatment of all the technologies that underlie fifth generation and beyond systems A complementary companion website provides readers with a wealth of old and new material including instructor resources available upon request Readers will also find A thorough introduction to the applications and requirements of modern wireless services including video streaming virtual reality and Internet of Things Comprehensive explorations of wireless propagation mechanisms and channel models ranging from Rayleigh fading to advanced models for MIMO communications Detailed discussions of single user communications fundamentals including modern coding techniques multi carrier communications and single user MIMO Extensive description of multi user communications including packet radio systems CDMA scheduling admission control cellular and ad hoc network design and multi user MIMO In depth examinations of advanced topics in wireless communication like speech and video coding cognitive radio NOMA network coding and wireless localization A comprehensive description of the key wireless standards including LTE 5G WiFi Bluetooth and an outlook to Beyond 5G systems Perfect for advanced undergraduate and graduate students with a basic knowledge of standard communications Wireless Communications will also earn a place in the libraries of researchers and system designers seeking a one stop resource on wireless communication technology

## **Book Digital Techniques Wideband Receivers Electromagnetics** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Book Digital Techniques Wideband Receivers Electromagnetics**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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