



Digital Microwave Receivers

Arnab Kumar Shaw



Digital Microwave Receivers:

Microwave Receivers with Electronic Warfare Applications James B. Tsui, 1992-01-01 *Digital Microwave Receivers* James Tsui, 1989 Digital Microwave Receivers James B. Tsui, 1989-01-01 **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.

Microwave Receivers with Electronic Warfare Applications James Tsui, 1986-09-02 Provides a comprehensive introduction to microwave receivers, stressing both the general characteristics of microwave devices and the uses of particular systems. Covers receiver definition and performance and discusses the important area of receiver systems. Emphasizes the necessity of designing microwave receiver systems to receive hostile communications during electronic warfare. Material has been collected from technical articles, specialists in the field, and the author's own experience. Written at a level appropriate for advanced undergraduates and first-year graduate students. A Comparison of Advanced Adaptive Receivers for Digital Microwave Radio in a Multipath Fading Environment Kenneth Steven Lazaris-Brunner, 1988 *Special Design Topics in Digital Wideband Receivers* James B. Y. Tsui, 2010 Offering engineers a thorough examination of special, more advanced aspects of digital wideband receiver design, this practical book builds on fundamental resources on the topic, helping you gain a more comprehensive understanding of the subject. This in-depth volume presents a detailed look at a complete receiver design, including the encoder. Moreover, it discusses the detection of exotic signals and provides authoritative guidance on designing receivers used in electronic warfare. From frequency modulation and biphase shifting keys to parameter encoders in electronic warfare receivers and the use of the simulation and probability density function to predict the false alarm parameter, this book focuses on critical topics and techniques that help you design digital wideband receivers for top performance. The authoritative reference is supported with over 310 illustrations and more than 180 equations. Algorithms for Digital Micro-Wave Receivers & Optimal System Identification, 1997 According to the original Project Proposal, the two primary directions considered in this research effort are: 1. Advanced signal processing algorithms for digital microwave receivers with Electronic Warfare applications. Significant contribution has been made on estimating the Angles of Arrival (AOA) or frequencies. Specifically, a computationally efficient and accurate Minimum Norm Method has been developed that does not require any Eigenanalysis. Theoretical Perturbation Analysis of this method has been completed. A Maximum Likelihood Estimator (MLE) that ensures unit circle frequencies has been developed. Furthermore, a new pipelined adaptive algorithm for tracking moving targets has been presented. 2. Optimal identification of rational transfer functions. Unlike existing algorithms which either modify or linearize the error criterion, the true criteria have been decoupled into 1. a purely linear problem for the numerator and 2. a nonlinear problem with reduced dimensionality for the denominator. The

decoupled estimators possess global optimality properties but have reduced computational complexity than existing methods. The results on 1-D cases have been extended for identifying Multi-Dimensional systems. In addition, a new Distributed Look Ahead architecture and an Optimal Approximation Approach have been proposed for high speed implementation of Recursive Digital Filters.

Algorithms for Digital Micro-wave Receivers and Optimal System Identification Arnab Kumar Shaw, 1994. The research in the Year 1 of this project has focused on two primary directions as originally proposed: i) Advanced signal processing algorithms for digital microwave receivers with Electronic Warfare applications. For estimating the Angles of Arrival or Radio Frequencies, a significant contribution has been made with a computationally efficient Minimum Norm Method that does not require any Eigenanalysis but produces equally good estimates. A Maximum Likelihood Estimator (MLE) that ensures unit circle frequencies has been proposed for obtaining the most accurate estimates. Furthermore, two new algorithms for improved AR/ARMA spectrum estimator from noisy observations have been considered. Several time domain and frequency domain algorithms for detecting the presence of targets are also being studied. ii) A general and unified theoretical framework for optimal identification of rational transfer function coefficients from 1) Input Output data, 2) Impulse Response data, and 3) Frequency Response data. Unlike existing algorithms which either modify or linearize the error criterion to estimate the unknown parameters simultaneously, the true error criteria have been decoupled into i) a purely linear problem for estimating the optimal numerator and ii) a nonlinear problem with reduced dimensionality for the optimal denominator. The decoupled estimators possess global optimality properties but have reduced computational complexity than existing methods.

Angles of Arrival estimation, Frequency estimation, Digital receiver design, Improved AR and ARMA modeling, Electronic Warfare (EW) signal detection, Optimal system identification from input/output and frequency domain data.

Microwave Receivers and Related Components - Electronic Engineering Series James Bao-Yen Tsui, Harold Toy, 2008-10-01. This volume in the Electronic Engineering Series discusses microwave receivers, detectors, frequency synthesizers, and other topics.

Algorithms for Digital Micro-wave Receivers and Optimal System Identification Arnab Kumar Shaw, 1994. The research in the Year 1 of this project has focused on two primary directions as originally proposed: i) Advanced signal processing algorithms for digital microwave receivers with Electronic Warfare applications. For estimating the Angles of Arrival or Radio Frequencies, a significant contribution has been made with a computationally efficient Minimum Norm Method that does not require any Eigenanalysis but produces equally good estimates. A Maximum Likelihood Estimator (MLE) that ensures unit circle frequencies has been proposed for obtaining the most accurate estimates. Furthermore, two new algorithms for improved AR/ARMA spectrum estimator from noisy observations have been considered. Several time domain and frequency domain algorithms for detecting the presence of targets are also being studied. ii) A general and unified theoretical framework for optimal identification of rational transfer function coefficients from 1) Input Output data, 2) Impulse Response data, and 3) Frequency Response data. Unlike existing algorithms which either modify or

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[Gallium Arsenide IC Applications Handbook](#), 1995-09-27
Gallium Arsenide IC Applications Handbook is the first text to offer a comprehensive treatment of Gallium Arsenide GaAs integrated chip IC applications specifically in microwave systems The books coverage of GaAs in microwave monolithic ICs demonstrates why GaAs is being hailed as a material of the future for the various advantages it holds over silicon This volume provides scientists physicists electrical engineers and technology professionals and managers working on microwave technology with practical information on GaAs applications in radar electronic warfare communications consumer electronics automotive electronics and traffic control Includes an executive summary in each volume and chapter Facilitates comprehension with its tutorial writing style Covers key technical issues Emphasizes practical aspects of the technology Contains minimal mathematics Provides a complete reference list

Microwave Receivers and Related Components James Tsui, 1983 *Transmission Systems Design Handbook for Wireless Networks* Harvey Lehpamer, 2002 This practical new resource gives you a comprehensive understanding of the design and deployment of transmission networks for wireless applications From principles and design to equipment procurement project management testing and operation it s a practical hands on engineering guide with numerous real life examples of turn key operations in the wireless networking industry This book written for both technical and non technical professionals helps you deal with the costs and difficulties involved in setting up the local access with technologies that are still in the evolutionary stage Issues involved in the deployment of various transmission technologies and their impact on the overall wireless network topology are discussed Strategy and approach to transmission network planning design and deployment are explored The book offers practical guidelines and advice derived from the author s own experience on projects worldwide You gain a solid grounding in third generation wireless networks with increased capacity requirements while learning all about packet data architecture and how it will impact future transmission network design and deployment

Signal Digitization and Reconstruction in Digital Radios Yefim Poberezhskiy, Gennady Poberezhskiy, 2018-12-31 This comprehensive resource provides the latest information on digitization and reconstruction D R of analog signals in digital radios Readers learn how to conduct comprehensive analysis concisely describe the major signal processing procedures carried out in the radios and demonstrate the dependence of these procedures on the quality of D R The book presents and analyzes the most promising and theoretically sound ways to improve the characteristics of D R circuits and illustrate the influence of these improvements on the capabilities of digital radios The book is intended to bridge

the gap that exists between theorists and practical engineers developing D R techniques by introducing new signal transmission and reception methods that can effectively utilize the unique capabilities offered by novel digitization and reconstruction techniques

Basic Radar Analysis, Second Edition Mervin C. Budge, Shawn R. German, 2020-04-30 This highly anticipated second edition of an Artech House classic covers several key radar analysis areas the radar range equation detection theory ambiguity functions waveforms antennas active arrays receivers and signal processors CFAR and chaff analysis Readers will be able to predict the detection performance of a radar system using the radar range equation its various parameters matched filter theory and Swerling target models The performance of various signal processors single pulse pulsed Doppler LFM NLFM and BPSK are discussed taking into account factors including MTI processing integration gain weighting loss and straddling loss The details of radar analysis are covered from a mathematical perspective with in depth breakdowns of radar performance in the presence of clutter Readers will be able to determine the noise temperature of a multi channel receiver as it is used in active arrays With the addition of three new chapters on moving target detectors inverse synthetic aperture radar ISAR and constant false alarm rate CFAR and new MATLAB codes this expanded second edition will appeal to the novice as well as the experienced practitioner

Advanced Techniques for Digital Receivers Phillip E. Pace, 2000 Disk contains MATLAB SIMULINK programs to be used for the problem exercises

Digital Microwave Communication George Kizer, 2013-06-24 The first book to cover all engineering aspects of microwave communication path design for the digital age Fixed point to point microwave systems provide moderate capacity digital transmission between well defined locations Most popular in situations where fiber optics or satellite communication is impractical it is commonly used for cellular or PCS site interconnectivity where digital connectivity is needed but not economically available from other sources and in private networks where reliability is most important Until now no book has adequately treated all engineering aspects of microwave communications in the digital age This important new work provides readers with the depth of knowledge necessary for all the system engineering details associated with fixed point to point microwave radio path design the why what and how of microwave transmission design objectives engineering methodologies and design philosophy in the bid design and acceptance phase of the project Written in an easily accessible format Digital Microwave Communication features an appendix of specialized engineering details and formulas and offers up chapter coverage of A Brief History of Microwave Radio Microwave Radio Overview System Components Hypothetical Reference Circuits Multipath Fading Rain Fading Reflections and Obstructions Network Reliability Calculations Regulation of Microwave Radio Networks Radio Network Performance Objectives Designing and Operating Microwave Systems Antennas Radio Diversity Ducting and Obstruction Fading Digital Receiver Interference Path Performance Calculations Digital Microwave Communication Engineering Point to Point Microwave Systems will be of great interest to engineers and managers who specify design or evaluate fixed point to point microwave systems associated with communications systems and equipment manufacturers

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Digital Communications Systems Harold Kolimbiris, 2000 This book presents in detail the three media used in digital transmission line of sight satellite and optical fibers It also provides the reader with practical examples of system design

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