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Adaptive Multiuser Demodulation for Wireless Multiple Access Communications Advanced Modulation and Demodulation Techniques for Wireless Communications *Transceiver and System Design for Digital Communications* Wireless Receiver Design for Digital Communications A Comparison of Two Types of Zero-crossing FM Demodulators for Wireless Receivers **Multi-gigabit Low-power Wireless CMOS Demodulator Multiband Orthogonal Frequency Division Multiplexing Modulation and Demodulation for Wireless Universal Serial Bus** *Radio Frequency Modulation Made Easy* A Cable/wireless Modulation/demodulation Frontend Module for High Speed/broadband Datalink PSK Modulation/demodulation Circuits and Frequency Synthesizer for Mm-wave Wireless Communication **Distributed Tracking, Decoding, and Demodulation Using Wireless Sensor Networks Wideband FM Techniques for Low-Power Wireless Communications** Modulation and Coding Techniques in Wireless

Communications FM Demodulation Using a Digital Radio and Digital Signal Processing **Introduction to Wireless Communication Circuits** Cognitive Radio-Modulation and Demodulation **RF and Digital Signal Processing for Software-Defined Radio** Signal Processing for Wireless Communications *Multiuser Demodulation for DS-CDMA Systems in Fading Channels* **Wireless Networks: Multiuser Detection in Cross-Layer Design Amplitude and Phase Demodulation of Filtered AM/PM Signals** Adaptive Optics Theory and Its Application in Optical Wireless Communication **Wideband FM Techniques for Low-Power Wireless Communications** *Introduction to Wireless Digital Communication* **Signal Detection and Frame Synchronization of Multiple Wireless Networking Waveforms Introduction to Digital Mobile Communication** *Wireless and Satellite Systems* **Low Power Spread Spectrum Demodulator for Wideband Wireless Communications** *A Comparative Analysis of Modulation and Demodulation Methods in Digital Communications* **Coherent Optical Wireless Communication Principle and Application Wireless Personal Communications** Modern Quadrature Amplitude Modulation **Distributed Computing in Sensor Systems Multi-Carrier Digital Communications**

Wireless Personal Communications *Digital Phased Array Architectures for Radar and Communications Based on Off-the-Shelf Wireless Technologies* **Multi-Standard CMOS Wireless Receivers: Analysis and Design Proceedings of the International Petroleum and Petrochemical Technology Conference 2020** *Transceiver System Design for Digital Communications* **Simplified Iterative Noncoherent Demodulation and Decoding of Encoded M-DPSK Signals Over Rayleigh Flat-fading Channels [microform]**

This thesis investigates the detection, classification, frame synchronization, and demodulation of wireless networking waveforms by a digital receiver. The approach is to develop detection thresholds for wireless networking signals based upon the probability density functions of the signal present or signal absent scenarios. A Neyman-Pearson test is applied to determine decision thresholds and the associated probabilities of detection. With a chosen threshold, MATLAB simulations are run utilizing models developed to generate and receive IEEE 802.11a, IEEE 802.16, and IEEE 802.11b signals in multipath channels characterized by Rayleigh fading. Algorithms

are developed for frame synchronization for each of the three waveforms. The probability of signal detection, successful frame synchronization, and the bit error rates of the received packet header and data are calculated. The results show that, even in Rayleigh fading environments at low signal to noise levels, these three waveforms can be distinguished in a digital receiver. Further, the results show that significant signal information can be gathered on these wireless networking waveforms, even when the entire signal cannot be demodulated due to low signal to noise ratios. Practical lessons and approaches in radio receiver design for wireless communication systems are the hallmarks of Wireless Receiver Design for Digital Communications, 2nd Edition. Decades of experience 'at the bench' are collected within and the book acts as a virtual replacement for a mentor who teaches basic concepts from a practical perspective and has the war stories that help their 'apprentice' avoid the mistakes of the past. Ultra Wideband (UWB) communications are poised to enable short-range applications, such as remote health monitoring (e-health) and home or office automation. Sensor networks are also

suitable candidates for UWB since the low radiated power of the UWB transmitter enables low DC power consumption, yielding long battery life and the possibility to use energy scavenging. Size and cost constraints require a low-complexity approach that allows multiple users to share the same RF bandwidth, and offers robustness to interference, frequency-selective multipath and antenna mismatch. Wideband FM Techniques for Low-Power Wireless Communications presents research and applications that have taken place in UWB Communications over the past years. This book is being published posthumously in agreement with the authors' former colleagues from both the Swiss Center for Electronics and Microtechnology (CSEM) and Delft University of Technology in The Netherlands. Over the past decade the tremendous development of Wireless Communications has changed human life incredibly. Considerable advancement has been made in the design and architecture of communications related RF and Microwave circuits. This book is focused on special circuits dedicated to the RF level of wireless Communications. From Oscillators to Modulation and Demodulation and from Mixers to RF and Power Amplifier Circuits, the

topics are presented in a sequential manner. A wealth of analysis is provided in the text alongside various worked out examples. Related problem sets are given at the end of each chapter. Master the Signal Processing Concepts and Techniques Needed to Design and Operate Any Wireless Communications Network Signal Processing for Wireless Communications offers communications engineers an application-focused guide to the essential concepts and techniques of wireless signal processing. This comprehensive reference examines the role that key algorithms and standard migration paths play in the design and day-to-day operations of today's state-of-the-art wireless networks. Written by Dr. Joseph Boccuzzi, a leading signal processing expert with years of product development, research, and teaching experience, this on-target engineering tool takes readers step by step through major wireless topics...modulation theory...wireless multipath channel...modulation detection methods...performance improvement techniques...receiver digital signal processing...3G wideband CDMA...computer simulation estimation techniques...and 3G and beyond. Designed to bring engineers up

to speed on the latest breakthroughs in signal processing technology, Signal Processing for Wireless Communications features: Expert coverage of 3G wideband CDMA Discussion of the role OFDM will play in future technologies Complete information on the role of vital signal processing algorithms within the context of wireless applications Discussions of advanced signal processing challenges in the mobile environment Over 500 detailed illustrations Inside This Hands-On Signal Processing Guide • Wireless Topics • Modulation Theory • Wireless Multipath Channel • Modulation Detection Techniques • Performance Improvement Techniques • Receiver Digital Signal Processing • 3G Wideband CDMA • Computer Simulation Estimation Techniques • 3G and Beyond This Note reports on part of an investigation of strategic communications. It presents an analysis of the distortion experienced by a hybrid AM/PM signal that has been filtered in the amplification stages of a typical receiver and then demodulated. This dissertation presents system and circuit development of the low-power multi-gigabit CMOS demodulator using analog and mixed demodulation techniques. In addition, critical building

blocks of the low-power analog quadrature front-ends are designed and implemented using 90 nm CMOS with a targeted compatibility to the traditional demodulator architecture. It exhibits an IF-to-baseband conversion gain of 25 dB with 1.8 GHz of baseband bandwidth and a dynamic range of 23 dB while consuming only 46 mW from a 1 V supply voltage. Several different demodulators using analog signal processor (ASP) are implemented: (1) an ultra-low power non-coherent ASK demodulator is measured to demodulate a maximum speed of 3 Gbps while consuming 32 mW from 1.8 V supply; (2) a mere addition of 7.5 mW to the aforementioned analog quadrature front-end enables a maximum speed of 2.5 Gbps non-coherent ASK demodulation with an improved minimum sensitivity of -38 dBm; (3) a robust coherent BPSK demodulator is shown to achieve a maximum speed of 3.5 Gbps based on the same analog quadrature front-end with only additional 7 mW. Furthermore, an innovative seamless handover mechanism between ASP and PLL is designed and implemented to improve the frequency acquisition time of the coherent BPSK demodulator. These demodulator designs have been proven to be feasible and are

integrated in a 60 GHz wireless receiver. The system has been realized in a product prototype and used to stream HD video as well as transfer large multi-media files at multi-gigabit speed. This book presents the key technologies of coherent optical wireless communication, covers topics such as beam coupling, signal optical polarization control and distorted wavefront correction. It discusses the principle of coherent optical communication and heterodyne detection conditions. In this book, the array coupling receiving technology and large aperture coupling technology are introduced to realize the spatial optical fiber coupling; simulated annealing algorithm, particle swarm optimization algorithm and SPO algorithm are used to control the polarization state of the signal beam; and the correction of distorted wavefront of the signal beam by adaptive optics technology and wavefront sensorless adaptive optics technology are analyzed, and the influence of beam mode on coherent detection performance is elaborated. Both theoretical deduction and experimental results are included in this book, which can help readers further understand the theoretical knowledge. Multi-

carrier modulation, in particular orthogonal frequency division multiplexing (OFDM), has been successfully applied to a wide variety of digital communications applications for several years. Although OFDM has been chosen as the physical layer standard for a diversity of important systems, the theory, algorithms, and implementation techniques remain subjects of current interest. This book is intended to be a concise summary of the present state of the art of the theory and practice of OFDM technology. This book offers a unified presentation of OFDM theory and high speed and wireless applications. In particular, ADSL, wireless LAN, and digital broadcasting technologies are explained. It is hoped that this book will prove valuable both to developers of such systems, and to researchers and graduate students involved in analysis of digital communications, and will remain a valuable summary of the technology, providing an understanding of new advances as well as the present core technology. A comparison of two novel demodulators. The first is a basic zero crossing demodulator, as introduced by Beards. The second is an approach proposed by Hovin. The two demodulators are compared to each other and to the conventional method

of demodulation. Ultra Wideband (UWB) communications are poised to enable short-range applications, such as remote health monitoring (e-health) and home or office automation. Sensor networks are also suitable candidates for UWB since the low radiated power of the UWB transmitter enables low DC power consumption, yielding long battery life and the possibility to use energy scavenging. Size and cost constraints require a low-complexity approach that allows multiple users to share the same RF bandwidth, and offers robustness to interference, frequency-selective multipath and antenna mismatch. Wideband FM Techniques for Low-Power Wireless Communications presents research and applications that have taken place in UWB Communications over the past years. This book is being published posthumously in agreement with the authors' former colleagues from both the Swiss Center for Electronics and Microtechnology (CSEM) and Delft University of Technology in The Netherlands. This two-volume set LNICST 280-281 constitutes the post-conference proceedings of the 10th EAI International Conference on Wireless and Satellite Services, WiSATS 2019, held in Harbin, China, in January 2019. The conference was

formerly known as the International Conference on Personal Satellite Services (PSATS) mainly covering topics in the satellite domain. The 137 full papers were carefully reviewed and selected from 289 submissions. The papers are organized in topical sections on machine learning for satellite-terrestrial networks, human-machine interactive sensing, monitoring, and communications, integrated space and onboard networks, intelligent signal processing, wireless communications and networks, vehicular communications and networks, intelligent 5G communication and digital image processing technology, security, reliability and resilience in internet of things, advances in communications and computing for internet of things. The area of personal and wireless communications is a burgeoning field. Technology advances and new frequency allocations for personal communication services (PCS) are creating numerous business and technical opportunities. It is becoming clear that an essential requirement for exploiting opportunities is the ability to track the dramatic changes in wireless technology, which is a principal aim of this book. Wireless Personal Communications: Research

Developments places particular emphasis on the areas of signal processing, propagation and spread-spectrum, and emerging communication systems. This book contains new results on adaptive antennas for capacity improvements in wireless communication systems, as well as state-of-the-art information on the latest technical developments. Also included are several chapters which discuss the impact of defense conversion on the wireless industry, and related competitive issues. The six parts of the book each focus on a distinct issue in wireless communications. Part I contains several tutorial chapters on key areas in wireless communications. The first chapter is on radio wave propagation for emerging wireless personal communication systems. Chapter two contains a comprehensive study of emerging DSP-based interference rejection techniques for single channel (antenna) systems. Chapter three deals with spread spectrum wireless communications, explaining the concept of spread spectrum, modeling techniques for spread spectrum, and current applications and research issues for spread spectrum systems. Part II focuses on digital signal processing and spread spectrum, two means of creating interference and multipath

robust communications. Part III concerns propagation aspects of wireless communications. Part IV discusses the performance of emerging wireless systems. Part V describes the opportunities and pitfalls of defense conversion from the perspective of several U.S. defense firms that have successfully made the transition to commercial wireless. The final section discusses a number of competitive issues regarding personal communication services. This thesis is a continuation of the design and development of a three-dimensional 2.4 GHz digital phased array radar antenna. A commercial off- the-shelf quadrature modulator and demodulator were used as phase shifters in the digital transmit and receive arrays. The phase response characteristic of the demodulator was measured and the results show that the phase difference between the received phase and transmit phase is small. In order to increase the bandwidth of the phased array, a method of time-varying phase weights for linear frequency modulated signal was investigated. Using time-varying phase weights on transmit and receive give the best performance, but require the range information of the target. It is more practical to use time-varying phase weights

on only one side (transmit or receive but not both), and constant phase weights on the other side. The simulation results showed that by using time- varying phase weights, the matched filter loss is not as severe as it is when using the conventional fixed weights technique. It is also found that this method is only effective for small scan angles when the time-bandwidth product is large. The approach to implement time-varying phase weights on transmit using commercial components such as direct digital synthesizer and quadrature modulator is discussed. "Well informed people know it is impossible to transmit the voice over wires, and that were it possible to do so, the thing would be ofno practical value. " from an editorial in the Boston Post -1865 Fortunately for the telecommunications industry, the unknown author of the above statement turned out to be very mistaken indeed. Even as he spoke, Alexander Graham Bell was achieving the impossible, with a host of competing inventors close behind. The communications revolution which ensued has changed the way in which we live and work, and the way in which we view the world around us. Wired telephone lines now encircle the globe, allowing instantaneous

transmission of voice and data. Events from Times Square to Red Square are now as accessible as events on the local courthouse lawn. The advent of wireless communications has extended Bell's revolution to another domain. Personal communications promises voice, data and images which are accessible everywhere. Although predictions are dangerous, a look back over the last decade reveals spectacular growth. In the United States alone, there are now over 50 million cordless phones in use throughout the country -at least one cordless phone for every 3 households - and nearly 20 million pocket pagers. U. S. Cellular telephone service, launched commercially in 1984, has experienced 30-40% annual growth rates despite a sluggish economy. This book introduces in detail the theory of adaptive optics and its correction technology for light wave distortion in wireless optical communication. It discusses the adaptive control algorithm of wavefront distortion, proportional+integral control algorithm and iterative control algorithm, and double fuzzy adaptive PID control algorithm. It also covers the SPGD algorithm of adaptive optics correction, deformable mirrors eigenmode method of wavefront aberration

correction, vortex beam wavefront detecting wavefront aberration correction, liquid crystal spatial light modulator wavefront correction, different wavelengths of Gaussian beam transmission wavefront differences in the atmospheric turbulence and correction and with wavefront tilt correction adaptive optics wavefront aberration correction. Various distortion correction methods are verified by experiments and the experimental results are analyzed. This book is suitable for engineering and technical personnel engaged in wireless optical communication, college teachers, graduate students and senior undergraduate students. Wireless universal serial bus has been proposed to offer a mechanism in short range and high speed wireless personal area networks. W-USB has now been standardised by utilising the common WiMedia Ultra-Wideband radio platform to use the services of Multiband orthoganal frequency Division Multiplexing as the transport mechanism. Quadrature Phase shift Keying and Dual Carrier Modulation are currently used as the modulation schemes for MB-OFDM in the ECMA-368 defined UWB radio platform. ECMA-368 has been chosen as the physical radio platform for many systems

including W-USB, Bluetooth 3.0 and wireless High-Definition Media Interface. Hence ECMA-368 is an important part of consumer electronics and the user's experience of these products. Based on the research on the QPSK and DCM, a new modulation scheme that has been termed as Dual Circular 32 Quadrature Amplitude Modulation exploiting frequency diversity is presented, which fits within the configuration of the current ECMA-368 standard to increase system throughput by achieving 600 Mb/s in reliable reception, thus maintaining the high data rate W-USB throughput even with a moderate level of dropped packets. The book constitutes the refereed proceedings of the First International Conference on Distributed Computing in Sensor Systems, DCOSS 2005, held in Marina del Rey, California, USA in June/July 2005. The 26 revised full papers presented were carefully reviewed and selected from 85 submissions; also included are the abstracts of 3 invited talks, 2 short papers, 9 invited poster abstracts, and 10 contributed abstracts.The papers address all current aspects of distributed computing issues in large-scale networked sensor systems, including systematic design techniques and tools,

algorithms, and applications. Now updated, this reference for digital communication provides an intuitive approach to transceiver design, allowing a broad spectrum of readers to understand concepts in wireless, data link, and digital communication techniques. Understand the RF and Digital Signal Processing Principles Driving Software-defined Radios! Software-defined radio (SDR) technology is a configurable, low cost, and power efficient solution for multimode and multistandard wireless designs. This book describes software-defined radio concepts and design principles from the perspective of RF and digital signal processing as performed within this system. After an introductory overview of essential SDR concepts, this book examines signal modulation techniques, RF and digital system analysis and requirements, Nyquist and oversampled data conversion techniques, and multirate digital signal processing.. KEY TOPICS •Modulation techniques Master analog and digital modulation schemes •RF system-design parameters Examine noise and link budget analysis and Non-linear signal analysis and design methodology •Essentials of baseband and bandpass sampling and gain control IF

sampling architecture compared to traditional quadrature sampling, Nyquist zones, automatic gain control, and filtering •Nyquist sampling converter architectures Analysis and design of various Nyquist data converters •Oversampled data converter architectures Analysis and design of continuous-time and discrete-time Delta-Sigma converters •Multirate signal processing Gain knowledge of interpolation, decimation, and fractional data rate conversion *Offers readers a powerful set of analytical and design tools *Details real world designs *Comprehensive coverage makes this a must have in the RF/Wireless industry Introduces digital mobile communications with an emphasis on digital transmission methods This book presents mathematical analyses of signals, mobile radio channels, and digital modulation methods. The new edition covers the evolution of wireless communications technologies and systems. The major new topics are OFDM (orthogonal frequency domain multiplexing), MIMO (multi-input multi-output) systems, frequency-domain equalization, the turbo codes, LDPC (low density parity check code), ACELP (algebraic code excited linear predictive) voice coding, dynamic scheduling for

wireless packet data transmission and nonlinearity compensating digital pre-distorter amplifiers. The new systems using the above mentioned technologies include the second generation evolution systems, the third generation systems with their evolution systems, LTE and LTE-advanced systems, and advanced wireless local area network systems. The second edition of Digital Mobile Communication: Presents basic concepts and applications to a variety of mobile communication systems Discusses current applications of modern digital mobile communication systems Covers the evolution of wireless communications technologies and systems in conjunction with their background The second edition of Digital Mobile Communication is an important textbook for university students, researchers, and engineers involved in wireless communications. This is the first book on the subject of multi-standard wireless receivers. It covers both the analysis and design aspects of CMOS radio receivers, with primary focus on receivers for mobile terminals. The subject of multi-standard data converter design for base stations is also covered. Cross-layer design seeks to enhance the capacity of wireless

networks significantly through the joint optimization of multiple layers in the network, primarily the physical (PHY) and medium access control (MAC) layers. Although there are advantages of such design in wireline networks as well, this approach is particularly advantageous for wireless networks due to the properties (such as mobility and interference) that strongly affect performance and design of higher layer protocols. This unique monograph is concerned with the issue of cross-layer design in wireless networks, and more particularly with the impact of node-level multiuser detection on such design. It provides an introduction to this vibrant and active research area insufficiently covered in existing literature, presenting some of the principal methods developed and results obtained to date. Accompanied by numerous illustrations, the text is an excellent reference for engineers, researchers and students working in communication networks. This book introduces Radio Frequency Modulation to a broad audience. The author blends theory and practice to bring readers up-to-date in key concepts, underlying principles and practical applications of wireless communications. The presentation is

designed to be easily accessible, minimizing mathematics and maximizing visuals. The high level of technical detail included in standards specifications can make it difficult to find the correlation between the standard specifications and the theoretical results. This book aims to cover both of these elements to give accessible information and support to readers. It explains the current and future trends on communication theory and shows how these developments are implemented in contemporary wireless communication standards. Examining modulation, coding and multiple access techniques, the book is divided into two major sections to cover these functions. The two-stage approach first treats the basics of modulation and coding theory before highlighting how these concepts are defined and implemented in modern wireless communication systems. Part 1 is devoted to the presentation of main L1 procedures and methods including modulation, coding, channel equalization and multiple access techniques. In Part 2, the uses of these procedures and methods in the wide range of wireless communication standards including WLAN, WiMax, WCDMA, HSPA, LTE and cdma2000 are considered. An essential study of the

implementation of modulation and coding techniques in modern standards of wireless communication Bridges the gap between the modulation coding theory and the wireless communications standards material Divided into two parts to systematically tackle the topic - the first part develops techniques which are then applied and tailored to real world systems in the second part Covers special aspects of coding theory and how these can be effectively applied to improve the performance of wireless communications systems The Accessible Guide to Modern Wireless Communication for Undergraduates, Graduates, and Practicing Electrical Engineers Wireless communication is a critical discipline of electrical engineering and computer science, yet the concepts have remained elusive for students who are not specialists in the area. This text makes digital communication and receiver algorithms for wireless communication broadly accessible to undergraduates, graduates, and practicing electrical engineers. Notably, the book builds on a signal processing foundation and does not require prior courses on analog or digital communication. Introduction to Wireless Digital Communication establishes

the principles of communication, from a digital signal processing perspective, including key mathematical background, transmitter and receiver signal processing algorithms, channel models, and generalizations to multiple antennas. Robert Heath's "less is more" approach focuses on typical solutions to common problems in wireless engineering. Heath presents digital communication fundamentals from a signal processing perspective, focusing on the complex pulse amplitude modulation approach used in most commercial wireless systems. He describes specific receiver algorithms for implementing wireless communication links, including synchronization, carrier frequency offset estimation, channel estimation, and equalization. While most concepts are presented for systems with single transmit and receive antennas, Heath concludes by extending those concepts to contemporary MIMO systems. To promote learning, each chapter includes previews, bullet-point summaries, examples, and numerous homework problems to help readers test their knowledge. Basics of wireless communication: applications, history, and the central role of signal processing Digital communication essentials: components, channels,

distortion, coding/decoding, encryption, and modulation/demodulation Signal processing: linear time invariant systems, probability/random processes, Fourier transforms, derivation of complex baseband signal representation and equivalent channels, and multi-rate signal processing Least-squared estimation techniques that build on the linear algebra typically taught to electrical engineering undergraduates Complex pulse amplitude modulation: symbol mapping, constellations, signal bandwidth, and noise Synchronization, including symbol, frame, and carrier frequency offset Frequency selective channel estimation and equalization MIMO techniques using multiple transmit and/or receive antennas, including SIMO, MISO, and MIMO-OFDM Register your product at informit.com/register for convenient access to downloads, updates, and corrections as they become available. The reconfigurability in Cognitive Radio (CR) facilitates to dynamically change its parameters for the efficient spectrum utilization. The motivation behind the study of cognitive radio is that the number of different radio signals can be handled without using extra circuitry, i.e., reusing identical hardware with the change in the

software will reduce time to market, development cost, and upgrade infrastructure. Software Defined Radio (SDR) is an enabling technology for Cognitive Radio (CR); therefore, it emphasizes on SDR unique features, characteristics, and basics concepts that are required to understand operation of SDR. SDR allows service providers to upgrade infrastructure without unreasonable cost. Modulation techniques play a vital role in any communication systems such as cable modems, DSL modems, CDMA, 4G, Wi-Fi, and WIMAX; thus, it emphasizes on implementation of modulation techniques using SDR Generic hardware, which is operated by Open Source software called GNU Radio. Implementation of various analog and digital modulation techniques using the GNU Radio provides a way for developing advanced wireless communication system. GNU Radio software is a highly flexible signal processing platform, which makes it easy and reduces time to implement different modulation techniques with appropriate script. Finally, we study the average probability of error for both the S- and P-DFDs in a DS-CDMA system where the average is over randomly assigned signature sequences. We present a large system

analysis which allows an efficient characterization of receiver performance as a function of various system parameters. The results show that at low load and/or high Signal-to-Noise Ratios, the probability of error approaches single-user performance. This system-level approach to transceiver design covers digital communications principles for military applications and translating those concepts for commercial applications. Topics include link budget, receiver and transmitter specifications, modulation, and spread spectrum. This book is a compilation of selected papers from the 4th International Petroleum and Petrochemical Technology Conference (IPPTC 2020). The proceedings focus on Static & Dynamic Reservoir Evaluation and Management; Drilling, Production and Oilfield Chemistry; Storage, Transportation and Flow Assurance; Refinery and Petrochemical Engineering; Machinery, Materials and Corrosion Protection. The conference not only provides a platform to exchanges experience, but also promotes the development of scientific research in oil & gas exploration and production. The main audience for the work includes industry experts, leading engineers, researchers and technical

managers as well as university scholars.

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