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Advanced Topics in Signal Processing Topics in Signal Processing Selected Topics in Signal Processing Understanding Digital Signal Processing Topics in Radar Signal Processing Topics in Non-Gaussian Signal Processing Signal Processing and Systems Theory Advanced Topics in Signal Processing Topics in Radar Signal Processing Signal Processing and Machine Learning Theory Advanced Theory of Signal Detection Digital Signal Processing Topics in Control and its Applications Issues in Electronic Circuits, Devices, and Materials: 2013 Edition Issues in Electronic Circuits, Devices, and Materials: 2011 Edition Machine Intelligence and Signal Analysis Academic Press Library in Signal Processing Issues in Electronic Circuits, Devices, and Materials: 2012 Edition Academic Press Library in Signal Processing Multimedia over Cognitive Radio Networks Selected Topics in RF, Analog and Mixed Signal Circuits and Systems Analog and Digital Signal Processing Advanced Topics in System and Signal Theory Circuits, Systems and Signal Processing Adaptive Learning Methods for Nonlinear System Modeling Signals and Systems Advancement in Sensing Technology Anywhere-Anytime Signals and Systems Laboratory Brain and Nature-Inspired Learning, Computation and Recognition Academic Press Library in Signal Processing Radar Networks Surface Electromyography: Barriers Limiting Widespread use of sEMG in Clinical Assessment and Neurorehabilitation Analog and Digital Signals and Systems Academic Press Library in Signal Processing Rudiments of Signal Processing and Systems Advanced Topics in Shannon Sampling and Interpolation Theory Compressive Sensing for Wireless Networks Multimedia Signal Processing New Directions in Wireless Communications Systems Advanced Theory of Signal Detection

Advanced Topics in Signal Processing 1988

this book is a collection of specific research problems in signal processing and their solutions it touches upon most core topics including active and passive processing discrete time and continuous signals and design of filters and networks for specific applications this unique collection of design problems and conceptual insights will be useful to graduate students researchers and professionals working on signal processing problems in addition the book can also be used as a supplementary text for graduate courses in advanced signal processing and for professional development courses for practicing engineers

Topics in Signal Processing *2020-10-24*

this book explains digital signal processing topics in detail with a particular focus on ease of understanding accordingly it includes a wealth of examples to aid in comprehension and stresses simplicity the book is divided into four chapters which respectively address the topics sampling of continuous time signals multirate signal processing the discrete fourier transform and filter design concepts it provides original practical techniques to draw the spectrum of aliased signals together with well designed numerical examples to illustrate the operation of the fast transforms filter algorithms and circuit designs readers of this book should already have some basic understanding of signals and transforms they will learn fundamental concepts for signals and systems as the focus is more on digital signal processing concepts rather than continuous time signal processing topics

Selected Topics in Signal Processing *1989*

radar has been an important topic since its introduction in a military context during world war ii due to advances in technology it has been necessary to refine the algorithms employed within the signal processing architecture hence this book provides a series of chapters examining some topics in modern radar signal processing these include synthetic aperture radar multiple input multiple output radar as well as a series of chapters examining other key issues relevant to the central theme of the book

Understanding Digital Signal Processing *2017-05-30*

non gaussian signal processing is a child of a technological push it is evident that we are moving from an era of simple signal processing with relatively primitive electronic cir cuits to one in which digital processing systems in a combined hardware software configura tion are quite capable of implementing advanced mathematical and statistical procedures moreover as these processing techniques become more sophisticated and powerful the sharper resolution of the resulting system brings into question the classic distributional assumptions of gaussianity for both noise and signal processes this in turn opens the door to a fundamental reexamination of structure and inference methods for non gaussian sto chastic processes together with the application of such processes as models in the context of filtering estimation detection and signal extraction based on the premise that such a fun damental reexamination was timely in 1981 the office of

naval research initiated a research effort in non gaussian signal processing under the selected research opportunities program

Topics in Radar Signal Processing 2018-05-16

signal processing and systems theory is concerned with the study of h optimization for digital signal processing and discrete time control systems the first three chapters present the basic theory and standard methods in digital filtering and systems from the frequency domain approach followed by a discussion of the general theory of approximation in hardy spaces aak theory is introduced first for finite rank operators and then more generally before being extended to the multi input multi output setting this mathematically rigorous book is self contained and suitable for self study the advanced mathematical results derived here are applicable to digital control systems and digital filtering

Topics in Non-Gaussian Signal Processing *2012-12-06*

radar has been an important topic since its introduction in a military context during world war ii due to advances in technology it has been necessary to refine the algorithms employed within the signal processing architecture hence this book provides a series of chapters examining some topics in modern radar signal processing these include synthetic aperture radar multiple input multiple output radar as well as a series of chapters examining other key issues relevant to the central theme of the book

<u>Signal Processing and Systems Theory</u> *2012-12-06*

signal processing and machine learning theory authored by world leading experts reviews the principles methods and techniques of essential and advanced signal processing theory these theories and tools are the driving engines of many current and emerging research topics and technologies such as machine learning autonomous vehicles the internet of things future wireless communications medical imaging etc provides quick tutorial reviews of important and emerging topics of research in signal processing based tools presents core principles in signal processing theory and shows their applications discusses some emerging signal processing tools applied in machine learning methods references content on core principles technologies algorithms and applications includes references to journal articles and other literature on which to build further more specific and detailed knowledge

Advanced Topics in Signal Processing 1988

this monograph contains a number of problems with signal detection theory presenting a generalized observation model for signal detection problems the model includes several interesting and common special cases such as those describing additive noise multiplicative noise and signal dependent noise

Topics in Radar Signal Processing *2018*

the book provides a comprehensive exposition of all major topics in digital signal processing dsp with numerous illustrative examples for easy understanding of the topics it also includes matlab based examples with codes in order to encourage the readers to become more confident of the fundamentals and to gain insights into dsp further it presents real world signal processing design problems using matlab and programmable dsp processors in addition to problems that require analytical solutions it discusses problems that require solutions using matlab at the end of each chapter divided into 13 chapters it addresses many emerging topics which are not typically found in advanced texts on dsp it includes a chapter on adaptive digital filters used in the signal processing problems for faster acceptable results in the presence of changing environments and changing system requirements moreover it offers an overview of wavelets enabling readers to easily understand the basics and applications of this powerful mathematical tool for signal and image processing the final chapter explores dsp processors which is an area of growing interest for researchers a valuable resource for undergraduate and graduate students it can also be used for self study by researchers practicing engineers and scientists in electronics communications and computer engineering as well as for teaching one to two semester courses

Signal Processing and Machine Learning Theory *2023-07-10*

with contributions from distinguished international authors the material presented here focuses upon new findings in the field of control including interesting applications as well as being informative it is a useful tool for practitioners of systems and control to ascertain new developments in the field

Advanced Theory of Signal Detection *2013-03-09*

issues in electronic circuits devices and materials 2013 edition is a scholarlyeditions book that delivers timely authoritative and comprehensive information about microwave research the editors have built issues in electronic circuits devices and materials 2013 edition on the vast information databases of scholarlynews you can expect the information about microwave research in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant the content of issues in electronic circuits devices and materials 2013 edition has been produced by the world s leading scientists engineers analysts research institutions and companies all of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at scholarlyeditions and available exclusively from us you now have a source you can cite with authority confidence and credibility more information is available at scholarlyeditions com

Digital Signal Processing *2018-04-14*

issues in electronic circuits devices and materials 2011 edition is a scholarlyeditions ebook that delivers timely authoritative and

comprehensive information about electronic circuits devices and materials the editors have built issues in electronic circuits devices and materials 2011 edition on the vast information databases of scholarlynews you can expect the information about electronic circuits devices and materials in this ebook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant the content of issues in electronic circuits devices and materials 2011 edition has been produced by the world s leading scientists engineers analysts research institutions and companies all of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at scholarlyeditions and available exclusively from us you now have a source you can cite with authority confidence and credibility more information is available at scholarlyeditions com

Topics in Control and its Applications *2012-12-06*

the book covers the most recent developments in machine learning signal analysis and their applications it covers the topics of machine intelligence such as deep learning soft computing approaches support vector machines svms least square svms lssvms and their variants and covers the topics of signal analysis such as biomedical signals including electroencephalogram eeg magnetoencephalography meg electrocardiogram ecg and electromyogram emg as well as other signals such as speech signals communication signals vibration signals image and video further it analyzes normal and abnormal categories of real world signals for example normal and epileptic eeg signals using numerous classification techniques the book is envisioned for researchers and graduate students in computer science and engineering electrical engineering applied mathematics and biomedical signal processing

Issues in Electronic Circuits, Devices, and Materials: 2013 Edition *2013-05-01*

this second volume edited and authored by world leading experts gives a review of the principles methods and techniques of important and emerging research topics and technologies in communications and radar engineering with this reference source you will quickly grasp a new area of research understand the underlying principles of a topic and its application ascertain how a topic relates to other areas and learn of the research issues yet to be resolved quick tutorial reviews of important and emerging topics of research in array and statistical signal processing presents core principles and shows their application reference content on core principles technologies algorithms and applications comprehensive references to journal articles and other literature on which to build further more specific and detailed knowledge edited by leading people in the field who through their reputation have been able to commission experts to write on a particular topic

Issues in Electronic Circuits, Devices, and Materials: 2011 Edition *2012-01-09*

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Machine Intelligence and Signal Analysis 2018-08-07

this first volume edited and authored by world leading experts gives a review of the principles methods and techniques of important and emerging research topics and technologies in machine learning and advanced signal processing theory with this reference source you will quickly grasp a new area of research understand the underlying principles of a topic and its application ascertain how a topic relates to other areas and learn of the research issues yet to be resolved quick tutorial reviews of important and emerging topics of research in machine learning presents core principles in signal processing theory and shows their applications reference content on core principles technologies algorithms and applications comprehensive references to journal articles and other literature on which to build further more specific and detailed knowledge edited by leading people in the field who through their reputation have been able to commission experts to write on a particular topic

Academic Press Library in Signal Processing *2013-09-10*

with nearly 7 billion mobile phone subscriptions worldwide mobility and computing have become pervasive in our society and business moreover new mobile multimedia communication services are challenging telecommunication operators to support the significant increase in multimedia traffic especially video over wireless networks new technological

Issues in Electronic Circuits, Devices, and Materials: 2012 Edition *2013-01-10*

selected topics in rf analog and mixed signal circuits and systems provides an overview and the state of the art developments on several selected topics in rf analog and mixed signal circuits and system

Academic Press Library in Signal Processing *2013-09-05*

building on the success of the first edition this popular text book has now been updated and revised covering both analog and digital signal processing techniques in an evenly balanced manner professor baher provides an excellent introductory and comprehensive text emphasising how analog and digital techniques complement each other rather than compete brings the entire area of signal processing within the scope of modern undergraduate curricula discusses topics such as spectral analysis of continuous and discrete signals deterministic and random fourier laplace and z transforms analysis of continuous and discrete systems and circuits design of analog and digital filters fast fourier transform algorithms and finite word length effects in digital processors presents a final chapter on advanced signal

processing including linear estimation adaptive filters over sampling sigma delta converters and wavelets to encourage further interest contains numerous solved examples throughout and matlab r exercises at the end of each chapter written primarily for undergraduates analog digital signal processing will also be an authoritative text for postgraduate students and professional engineers

Multimedia over Cognitive Radio Networks 2014-12-04

the requirement of causality in system theory is inevitably accompanied by the appearance of certain mathematical operations namely the riesz proj tion thehilberttransform andthespectralfactorizationmapping aclassical exampleillustratingthisisthedeterminationoftheso calledwiener lter the linear minimum means square error estimation lter for stationary stochastic sequences 88 if the lter is not required to be causal the transfer function of the wiener lter is simply given by h where xy xx xx and are certain given functions however if one requires that the xy timation lter is causal the transfer function of the optimal lter is given by 1 xy h p xx xx here and represent the so called spectral factors of and xx xx xx p is the so called riesz projection thus compared to the non causal lter two additional operations are necessary for the determination of the causal lter namely the spectral factorization mapping and xx xx xx the riesz projection p

Selected Topics in RF, Analog and Mixed Signal Circuits and Systems 2016-12-21

this book is a collection of tutorial like chapters on all core topics of signals and systems and the electronic circuits all the topics dealt with in the book are parts of the core syllabi of standard programs in electrical engineering electrical and computer engineering and electronics and telecommunication engineering domains this book is intended to serve as a secondary reader or supplementary text for core courses in the area of signals and systems electronic circuits and analog and digital signal processing when studying or teaching a particular topic the students and instructors of such courses would find it interesting and worthwhile to study the related tutorial chapter in this book in order to enhance their understanding of the fundamentals simplification of procedures alternative approaches and relation to other associated topics in addition the book can also be used as a primary or secondary text in short term or refresher courses and as a self study guide for professionals wishing to gain a comprehensive review of the signals and systems domain

Analog and Digital Signal Processing *2001-10-15*

adaptive learning methods for nonlinear system modeling presents some of the recent advances on adaptive algorithms and machine learning methods designed for nonlinear system modeling and identification real life problems always entail a certain degree of nonlinearity which makes linear models a non optimal choice this book mainly focuses on those methodologies for nonlinear modeling that involve any adaptive learning approaches to process data coming from an unknown nonlinear system by learning from available data such methods aim at estimating the nonlinearity introduced by the unknown system in particular the methods presented in this book are based on online learning approaches which process the data example by example and allow to model even complex nonlinearities e g showing time varying and dynamic behaviors possible fields of applications of such algorithms includes distributed sensor networks wireless communications channel identification predictive maintenance wind prediction network security vehicular networks active noise control information forensics

and security tracking control in mobile robots power systems and nonlinear modeling in big data among many others this book serves as a crucial resource for researchers phd and post graduate students working in the areas of machine learning signal processing adaptive filtering nonlinear control system identification cooperative systems computational intelligence this book may be also of interest to the industry market and practitioners working with a wide variety of nonlinear systems presents the key trends and future perspectives in the field of nonlinear signal processing and adaptive learning introduces novel solutions and improvements over the state of the art methods in the very exciting area of online and adaptive nonlinear identification helps readers understand important methods that are effective in nonlinear system modelling suggesting the right methodology to address particular issues

Advanced Topics in System and Signal Theory *2009-10-03*

this book is designed for use as a textbook for a one semester signals and systems class it is sufficiently user friendly to be used for self study as well it begins with a gentle introduction to the idea of abstraction by looking at numbers the one highly abstract concept we use all the time it then introduces some special functions that are useful for analyzing signals and systems it then spends some time discussing some of the properties of systems the goal being to introduce the idea of a linear time invariant system which is the focus of the rest of the book fourier series discrete and continuous time fourier transforms are introduced as tools for the analysis of signals the concepts of sampling and modulation which are very much a part of everyday life are discussed as applications of the these tools laplace transform and z transform are then introduced as tools to analyze systems the notions of stability of systems and feedback are analyzed using these tools the book is divided into thirty bite sized modules each module also links up with a video lecture through a qr code in each module the video lectures are approximately thirty minutes long there are a set of self study questions at the end of each module along with answers to help the reader reinforce the concepts in the module

Circuits, Systems and Signal Processing 2018-03-24

the book presents the recent advancements in the area of sensors and sensing technology specifically in environmental monitoring structural health monitoring dielectric magnetic electrochemical ultrasonic microfluidic flow surface acoustic wave gas cloud computing and bio medical this book will be useful to a variety of readers namely master and phd degree students researchers practitioners working on sensors and sensing technology the book will provide an opportunity of a dedicated and a deep approach in order to improve their knowledge in this specific field

Adaptive Learning Methods for Nonlinear System Modeling *2018-06-11*

a typical undergraduate electrical engineering curriculum incorporates a signals and systems course the widely used approach for the laboratory component of such courses involves the utilization of matlab to implement signals and systems concepts this book presents a newly developed laboratory paradigm where matlab codes are made to run on smartphones which most students already possess this smartphone based approach enables an anywhere anytime platform for students to conduct signals and systems experiments this book

covers the laboratory experiments that are normally covered in signals and systems courses and discusses how to run matlab codes for these experiments on smartphones thus enabling a truly mobile laboratory environment for students to learn the implementation aspects of signals and systems concepts a zipped file of the codes discussed in the book can be acquired via the website sites fastspring com bookcodes product signalssystemsbookcodes

Signals and Systems *2022-06-01*

brain and nature inspired learning computation and recognition presents a systematic analysis of neural networks natural computing machine learning and compression algorithms and applications inspired by the brain and biological mechanisms found in nature sections cover new developments and main applications algorithms and simulations developments in brain and nature inspired learning have promoted interest in image processing clustering problems change detection control theory and other disciplines the book discusses the main problems and applications pertaining to bio inspired computation and recognition introducing algorithm implementation model simulation and practical application of parameter setting readers will find solutions to problems in computation and recognition particularly neural networks natural computing machine learning and compressed sensing this volume offers a comprehensive and well structured introduction to brain and nature inspired learning computation and recognition presents an invaluable systematic introduction to brain and nature inspired learning computation and recognition describes the biological mechanisms mathematical analyses and scientific principles behind brain and nature inspired learning calculation and recognition systematically analyzes neural networks natural computing machine learning and compression algorithms and applications inspired by the brain and biological mechanisms found in nature discusses the theory and application of algorithms and neural networks natural computing machine learning and compression perception

Advancement in Sensing Technology 2012-09-06

this second volume edited and authored by world leading experts gives a review of the principles methods and techniques of important and emerging research topics and technologies in communications and radar engineering with this reference source you will quickly grasp a new area of research understand the underlying principles of a topic and its application ascertain how a topic relates to other areas and learn of the research issues yet to be resolved quick tutorial reviews of important and emerging topics of research in array and statistical signal processing presents core principles and shows their application reference content on core principles technologies algorithms and applications comprehensive references to journal articles and other literature on which to build further more specific and detailed knowledge edited by leading people in the field who through their reputation have been able to commission experts to write on a particular topic

Anywhere-Anytime Signals and Systems Laboratory *2016-10-23*

radar networks are increasingly regarded as an efficient approach to enhancing radar capabilities in the face of popular anti radar techniques and hostile operating environments reader friendly and self contained this book provides a comprehensive overview of the latest radar networking technologies the text addresses basic relevant aspects of radar signal processing and statistical theories including both civilian

and military radar applications it also discusses emerging topics that directly relate to networks such as multiple input multiple output mimo radars waveform design and diversity via multiple transmitters other topics covered include target recognition and imaging using radar networks features gives a comprehensive view of the latest radar network technologies covers both civilian and military applications of radar provides basic statistics and signal processing necessary for understanding radar networks includes up to date information on mimo radars presents waveform design and diversity for radar networks with multiple transmitters

Brain and Nature-Inspired Learning, Computation and Recognition *2020-01-18*

this book presents a systematic comprehensive treatment of analog and discrete signal analysis and synthesis and an introduction to analog communication theory this evolved from my 40 years of teaching at oklahoma state university osu it is based on three courses signal analysis a second semester junior level course active filters a first semester senior level course and digital signal processing a second semester senior level course i have taught these courses a number of times using this material along with existing texts the references for the books and journals over 160 references are listed in the bibliography section at the undergraduate level most signal analysis courses do not require probability theory only a very small portion of this topic is included here i emphasized the basics in the book with simple mathematics and the soph tication is minimal theorem proof type of material is not emphasized the book uses the following model 1 learn basics 2 check the work using bench marks 3 use software to see if the results are accurate the book provides detailed examples over 400 with applications a thr number system is used consisting of chapter number section number example or problem number thus allowing the student to quickly identify the related material in the appropriate section of the book the book includes well over 400 homework problems problem numbers are identified using the above three number system

Academic Press Library in Signal Processing *2013-09-10*

this fourth volume of a five volume set edited and authored by world leading experts gives a review of the principles methods and techniques of important and emerging research topics and technologies in image video processing and analysis hardware audio acoustic and speech processing with this reference source you will quickly grasp a new area of research understand the underlying principles of a topic and its application ascertain how a topic relates to other areas and learn of the research issues yet to be resolved quick tutorial reviews of important and emerging topics of research in image video processing and analysis hardware audio acoustic and speech processing presents core principles and shows their application reference content on core principles technologies algorithms and applications comprehensive references to journal articles and other literature on which to build further more specific and detailed knowledge edited by leading people in the field who through their reputation have been able to commission experts to write on a particular topic

Radar Networks *2020-06-09*

this book is intended to be a little different from other books in its coverage there are a great many digital signal processing dsp books and signals and systems books on the market since most undergraduate courses begin with signals and systems and then move on in later years

to dsp i felt a need to combine the two into one book that was concise yet not too overburdening this means that students need only purchase one book instead of two and at the same time see the flow of knowledge from one subject into the next like the rudiments of music it starts at the very beginning with some elementary knowledge and builds on it chapter by chapter to advanced work by chapter 15 i have been teaching now for 38 years and always think it necessary to credit the pioneers of the subjects we teach and ask the question how did we get to this present stage in technological achievement therefore in chapter 1 i have given a concise history trying to not sway too much away from the subject area this is followed by the rudimentary theory in increasing complexity it has already been taught successfully to a class at auckland university of technology new zealand

Surface Electromyography: Barriers Limiting Widespread use of sEMG in Clinical Assessment and Neurorehabilitation *2021-04-05*

advanced topics in shannon sampling and interpolation theory is the second volume of a textbook on signal analysis solely devoted to the topic of sampling and restoration of continuous time signals and images sampling and reconstruction are fundamental problems in any field that deals with real time signals or images including communication engineering image processing seismology speech recognition and digital signal processing this second volume includes contributions from leading researchers in the field on such topics as gabor s signal expansion sampling in optical image formation linear prediction theory polar and spiral sampling theory interpolation from nonuniform samples an extension of papoulis s generalized sampling expansion to higher dimensions and applications of sampling theory to optics and to time frequency representations the exhaustive bibliography on shannon sampling theory will make this an invaluable research tool as well as an excellent text for students planning further research in the field

Analog and Digital Signals and Systems *2010-08-05*

this comprehensive reference delivers the understanding and skills needed to take advantage of compressive sensing in wireless networks

Academic Press Library in Signal Processing *2013*

multimedia signal processing is a comprehensive and accessible text to the theory and applications of digital signal processing dsp the applications of dsp are pervasive and include multimedia systems cellular communication adaptive network management radar pattern recognition medical signal processing financial data forecasting artificial intelligence decision making control systems and search engines this book is organised in to three major parts making it a coherent and structured presentation of the theory and applications of digital signal processing a range of important topics are covered in basic signal processing model based statistical signal processing and their applications part 1 basic digital signal processing gives an introduction to the topic discussing sampling and quantization fourier analysis and synthesis z transform and digital filters part 2 model based signal processing covers probability and information models bayesian inference wiener filter adaptive filters linear prediction hidden markov models and independent component analysis part 3 applications of signal processing in

speech music and telecommunications explains the topics of speech and music processing echo cancellation deconvolution and channel equalization and mobile communication signal processing covers music signal processing explains the anatomy and psychoacoustics of hearing and the design of mp3 music coder examines speech processing technology including speech models speech coding for mobile phones and speech recognition covers single input and multiple inputs denoising methods bandwidth extension and the recovery of lost speech packets in applications such as voice over ip voip illustrated throughout including numerous solved problems matlab experiments and demonstrations companion website features matlab and c programs with electronic copies of all figures this book is ideal for researchers postgraduates and senior undergraduates in the fields of digital signal processing telecommunications and statistical data analysis it will also be a valuable text to professional engineers in telecommunications and audio and signal processing industries

Rudiments of Signal Processing and Systems 2021-11-18

beyond 2020 wireless communication systems will have to support more than 1 000 times the traffic volume of today s systems this extremely high traffic load is a major issue faced by 5g designers and researchers this challenge will be met by a combination of parallel techniques that will use more spectrum more flexibly realize higher spectral efficiency and densify cells novel techniques and paradigms must be developed to meet these goals the book addresses diverse key point issues of next generation wireless communications systems and identifies promising solutions the book s core is concentrated to techniques and methods belonging to what is generally called radio access network

Advanced Topics in Shannon Sampling and Interpolation Theory *2012-12-06*

this monograph contains a number of problems with signal detection theory presenting a generalized observation model for signal detection problems the model includes several interesting and common special cases such as those describing additive noise multiplicative noise and signal dependent noise

Compressive Sensing for Wireless Networks 2013-06-06

Multimedia Signal Processing *2007-10-22*

New Directions in Wireless Communications Systems *2017-10-16*

Advanced Theory of Signal Detection *2010-12-04*

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