

Course Name: Signals and Systems

Semester: IV (ECE)

Course Outcomes (CO):

1. Identify different signals and systems and state their properties both in Continuous and discrete domain
2. Apply the concept of impulse response and perform convolution in both Continuous and discrete domain to analyze the linear time invariant systems.
3. Perform spectral analysis of continuous and discrete time periodic signals using Fourier series.
4. Perform spectral analysis of continuous and discrete time periodic and aperiodic signals using Fourier transform.
5. Apply the Laplace transform and Z-transform to analyze of continuous-time and discrete-time signals and systems.

**Question Bank**  
**Course: Signals and Systems**

	Questions	Marks	CO	BL	PI
<b>UNIT I</b>					
LA.1	What is the period of the following signal, $x(t) = \sin(18\pi t + 78^\circ)$ ? (A) 1/9 (B) 2/9 (C) 1/3 (D) 4/9	1	1	2	
LA.2	The type of systems which are characterized by input and the output quantized at certain levels are called as (A) analog (B) discrete (C) continuous (D) digital	1	1	1	
LA.3	A system which is linear is said to obey the rules of (A) scaling (B) additivity (C) both scaling and additivity (D) homogeneity	1	1	1	
LA.4	Which one of the following systems is causal? (A) $y(t)=x(t)+x(t-3)+x(t^2)$ (B) $y(n)=x(n+2)$ (C) $y(t)=x(t-1)+x(t-2)$ (D) $y(n)=x(2n^2)$	1	1	2	
LA.5	Which of the following signals is/are periodic? (A) $x(t) = \cos 2t + \cos 3t + \cos 5t$ (B) $x(t) = \exp(j8\pi t)$ (C) $x(t) = \exp(-7t) \sin 10\pi t$ (D) $x(t) = \cos 2t \cos 4t$	1	1	2	
LA.6	The power of the signal $x(t) = 3 \cos(20\pi t - \pi/2) + 4 \sin(15\pi t)$ is (A) 40 (B) 41 (C) 42 (D) 82	1	1	2	
LA.7	The energy of the signal $x(t) = \frac{\sin(4\pi t)}{4\pi}$ is .....	1	1	3	
LA.8	A system with input $x[n]$ and output $y[n] = (\sin 5/6 \pi n) x[n]$ . The system is (A) Linear, stable and invertible. (B) (B) non-linear, stable and non-invertible	1	1	2	

# Mathematics In Signal Processing Iv

**Michael Brown**



## **Mathematics In Signal Processing Iv:**

**Mathematics in Signal Processing IV** J. G. McWhirter, I. K. Proudler, 1998 *Mathematics in Signal Processing 4* J. G. McWhirter, I. K. Proudler, 1998 This volume provides an overview of the wide range of mathematical topics in signal processing The focus is on alternative algebras for signal processing particularly multilinear and geometric algebra and Gröbner bases Other topics include array processing and digital communications wavelets nonlinear signal processing Padé approximation convex optimization and generalized eigenvalue decomposition Blending theory and practice the volume will appeal to a wide range of engineers and mathematicians Structured Matrices in Mathematics, Computer Science, and Engineering I Vadim Olshevsky, 2001 The collection of the contributions to these volumes offers a flavor of the plethora of different approaches to attack structured matrix problems The reader will find that the theory of structured matrices is positioned to bridge diverse applications in the sciences and engineering deep mathematical theories as well as computational and numerical issues The presentation fully illustrates the fact that the techniques of engineers mathematicians and numerical analysts nicely complement each other and they all contribute to one unified theory of structured matrices Back cover Adaptive Processing of Brain Signals Saeid Sanei, 2013-05-28 In this book the field of adaptive learning and processing is extended to arguably one of its most important contexts which is the understanding and analysis of brain signals No attempt is made to comment on physiological aspects of brain activity instead signal processing methods are developed and used to assist clinical findings Recent developments in detection estimation and separation of diagnostic cues from different modality neuroimaging systems are discussed These include constrained nonlinear signal processing techniques which incorporate sparsity nonstationarity multimodal data and multiway techniques Key features Covers advanced and adaptive signal processing techniques for the processing of electroencephalography EEG and magnetoencephalography MEG signals and their correlation to the corresponding functional magnetic resonance imaging fMRI Provides advanced tools for the detection monitoring separation localising and understanding of functional anatomical and physiological abnormalities of the brain Puts a major emphasis on brain dynamics and how this can be evaluated for the assessment of brain activity in various states such as for brain computer interfacing emotions and mental fatigue analysis Focuses on multimodal and multiway adaptive processing of brain signals the new direction of brain signal research

**Wind-Over-Wave Couplings** S. G. Sajjadi, N. H. Thomas, J. C. R. Hunt, 1999-04-29 The way in which wind blows over water and causes waves to be generated is still a very active area of research for applied mathematicians as well as for oceanographers and engineers These studies result in practical methods for forecasting waves and their effects on sediment pollution offshore structures etc and even lead to methods of controlling them These are the themes covered by papers in this book written by many of the leading authorities in the field Signal Processing IV, 1988 Signal Processing IV Jean-Louis Lacoume, 1988 This was the fourth in a sequence of international conferences promoted and organized by the

European Association for Signal Processing EURASIP This book in three volumes presents the proceedings of that conference EUSIPCO 88 comprised 47 separate sessions organized in 7 parallel programs Each of the 438 papers that were presented at the conference were reviewed by at least two referees from two independent institutions In addition 8 tutorials were contributed by experts in a large field of topics from Hidden Markov Fields to High Definition TV Systems The new technical potential of the DSP opening new frontiers was evidenced by the plenary session on Cheap and Powerful DSP Technologies A Challenge The contributions are grouped by topic in the contents in order to facilitate easy access The diversity of the topics as well as the extraordinary tempo at which Signal Processing has progressed since the first conference in Lausanne 1980 attest to the permanent vitality of this field of research and development Due to the extensive length of the contents only the number of papers presented per session is listed below

*Adaptive Filtering* Paulo S. R. Diniz, 2019-11-28 In the fifth edition of this textbook author Paulo S R Diniz presents updated text on the basic concepts of adaptive signal processing and adaptive filtering He first introduces the main classes of adaptive filtering algorithms in a unified framework using clear notations that facilitate actual implementation Algorithms are described in tables which are detailed enough to allow the reader to verify the covered concepts Examples address up to date problems drawn from actual applications Several chapters are expanded and a new chapter Kalman Filtering is included The book provides a concise background on adaptive filtering including the family of LMS affine projection RLS set membership algorithms and Kalman filters as well as nonlinear sub band blind IIR adaptive filtering and more Problems are included at the end of chapters A MATLAB package is provided so the reader can solve new problems and test algorithms The book also offers easy access to working algorithms for practicing engineers

**SPAWC'99** IEEE Signal Processing Society, 1999 Aimed at personal communication engineers the subjects covered in these proceedings include CDMA equalization MMO synchronization multi carrier systems array processing channel and sequence estimation and blind chip and symbol rate CDMA receivers

Financial Signal Processing and Machine Learning Ali N. Akansu, Sanjeev R. Kulkarni, Dmitry M. Malioutov, 2016-05-31 The modern financial industry has been required to deal with large and diverse portfolios in a variety of asset classes often with limited market data available Financial Signal Processing and Machine Learning unifies a number of recent advances made in signal processing and machine learning for the design and management of investment portfolios and financial engineering This book bridges the gap between these disciplines offering the latest information on key topics including characterizing statistical dependence and correlation in high dimensions constructing effective and robust risk measures and their use in portfolio optimization and rebalancing The book focuses on signal processing approaches to model return momentum and mean reversion addressing theoretical and implementation aspects It highlights the connections between portfolio theory sparse learning and compressed sensing sparse eigen portfolios robust optimization non Gaussian data driven risk measures graphical models causal analysis through temporal causal modeling and large scale copula based approaches Key features Highlights signal

processing and machine learning as key approaches to quantitative finance Offers advanced mathematical tools for high dimensional portfolio construction monitoring and post trade analysis problems Presents portfolio theory sparse learning and compressed sensing sparsity methods for investment portfolios including eigen portfolios model return momentum mean reversion and non Gaussian data driven risk measures with real world applications of these techniques Includes contributions from leading researchers and practitioners in both the signal and information processing communities and the quantitative finance community

**High-Performance VLSI Signal Processing Innovative Architectures and Algorithms, Systems Design and Applications** K. J. Ray Liu, Kung Yao, 1998 Electrical Engineering Signal Processing High Performance VLSI Signal Processing Innovative Architectures and Algorithms Volume 2 Systems Design And Applications The second volume in a two volume set High Performance VLSI Signal Processing Innovative Architectures and Algorithms brings together the most innovative papers in the field focused introductory material and extensive references The editors present timely coverage of the latest design tools design environments and implementations of VLSI signal processing systems These volumes will serve as vital resources for engineers who want a comprehensive knowledge of the extremely interdisciplinary field of high performance VLSI processing The editors provide a practical understanding of the merits of total system design through an insightful synergistic presentation of methodology architecture and infrastructure Each volume features Major papers that span the wide range of research areas in the field Chapter introductions including historical perspectives Numerous applications oriented design examples Coverage of current and future technological trends

**The Cumulative Book Index**, 1999

**QRD-RLS Adaptive Filtering** JOSE APOLINARIO JR, 2009-04-05 I feel very honoured to have been asked to write a brief foreword for this book on QRD RLS Adaptive Filtering a subject which has been close to my heart for many years The book is well written and very timely I look forward personally to seeing it in print The editor is to be congratulated on assembling such a highly esteemed team of contributing authors able to span the broad range of topics and concepts which underpin this subject In many respects and for reasons well expounded by the authors the LMS algorithm has reigned supreme since its inception as the algorithm of choice for practical applications of adaptive filtering However as a result of the relentless advances in electronic technology the demand for stable and efficient RLS algorithms is growing rapidly not just because the higher computational load is no longer such a serious barrier but also because the technological pull has grown much stronger in the modern commercial world of 3G mobile communications cognitive radio high speed imagery and so on

**Index of Conference Proceedings** British Library. Document Supply Centre, 1999

**Signal Processing, Theories and Applications**, 1988 [Kybernetika](#), 1996 **Applied mechanics reviews**, 1948 *Directory of Published Proceedings*, 2002 [American Book Publishing Record Cumulative 1998](#) R R Bowker Publishing, 1999-03

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