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seat scenario as shown in Fig 4. All  
signal processing solutions  
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alignment, microphone  
combination, noise estimation,  
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array processing. The first assumption is that there is uniform propagation in all directions of isotropic and non-dispersive medium. The second assumption is that for far field array processing, the radius of propagation is much greater than

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size of the array and that there is plane wave propagation. The third assumption is that there is a zero mean white noise and signal, which shows uncorrelation.

Finally, the last assumption is that there is no coupling and the



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In the past few years we have written and edited several books in the area of acoustic and speech signal processing. The reason behind this endeavor is that there were almost no books available in the

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Literature when we first started while there was (and still is) a real need to publish manuscripts summarizing the most useful ideas, concepts, results, and state-of-the-art algorithms in this important area of research.

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have received so far, we can say that we were right in doing this. Recently, several other researchers have followed us in this journey and have published interesting books with their own visions and perspectives. The idea of writing a book on

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carefully explains the theory and implementation of microphone arrays. While there are many manuscripts on antenna arrays from a narrowband perspective (narrowband signals and narrowband processing), the literature is quite scarce when it

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may not be necessarily  
appropriate and can lead to many  
m- understandings.

Microphone arrays have attracted  
a lot of interest over the last few  
decades since they have the  
potential to solve many important

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problems such as noise reduction/speech enhancement, source separation, dereverberation, spatial sound recording, and source localization/tracking, to name a few. However, the design and implementation of microphone

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arrays with beamforming algorithms is not a trivial task when it comes to processing broadband signals such as speech. Indeed, in most sensor arrangements, the beamformer output tends to have a frequency-dependent response. One

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exception, perhaps, is the family of differential microphone arrays (DMAs) who have the promise to form frequency-independent responses. Moreover, they have the potential to attain high directional gains with small and compact apertures. As a result,

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This type of microphone arrays has drawn much research and development attention recently.

This book is intended to provide a systematic study of DMAs from a signal processing perspective.

The primary objective is to develop a rigorous but yet simple

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theory for the design,  
implementation, and performance  
analysis of DMAs. The theory  
includes some signal processing  
techniques for the design of  
commonly used first-order,  
second-order, third-order, and  
also the general Nth-order DMAs.

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For each order, particular examples are given on how to form standard directional patterns such as the dipole, cardioid, supercardioid, hypercardioid, subcardioid, and quadrupole. The study demonstrates the performance of

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the different order DMAs in terms of beam pattern, directivity factor, white noise gain, and gain for point sources. The inherent relationship between differential processing and adaptive beamforming is discussed, which provides a better understanding



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This book presents the signal processing algorithms that have

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been developed to process the signals acquired by a spherical microphone array. Spherical microphone arrays can be used to capture the sound field in three dimensions and have received significant interest from researchers and audio engineers.

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advance the field of spherical  
array processing by helping those  
new to the field to study it  
efficiently and from a single  
source, as well as by offering a  
way for more experienced  
researchers and engineers to  
consolidate their understanding,

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Adding either or both of breadth and depth. The level of the presentation corresponds to graduate studies at MSc and PhD level. This book begins with a presentation of some of the essential mathematical and physical theory relevant to

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spherical microphone arrays, and of an acoustic impulse response simulation method, which can be used to comprehensively evaluate spherical array processing algorithms in reverberant environments. The chapter on acoustic parameter

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estimation describes the way in which useful descriptions of acoustic scenes can be parameterized, and the signal processing algorithms that can be used to estimate the parameter values using spherical microphone arrays. Subsequent

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chapters exploit these parameters including in particular measures of direction-of-arrival and of diffuseness of a sound field. The array processing algorithms are then classified into two main classes, each described in a separate chapter. These are



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Techniques And signal-independent beamforming algorithms. Although signal-dependent beamforming algorithms are in theory able to provide better performance compared to the signal-independent algorithms, they are

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currently rarely used in practice.  
The main reason for this is that  
the statistical information  
required by these algorithms is  
difficult to estimate. In a  
subsequent chapter it is shown  
how the estimated acoustic  
parameters can be used in the

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design of signal-dependent  
beamforming algorithms. This  
final step closes, at least in part,  
the gap between theory and  
practice.

Microphone arrays have attracted  
a lot of interest over the last few

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potential to solve many important  
problems such as noise  
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recording, and source  
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few. However, the design and implementation of microphone arrays with beamforming algorithms is not a trivial task when it comes to processing broadband signals such as speech. Indeed, in most sensor arrangements, the beamformer

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output tends to have a frequency-dependent response. One exception, perhaps, is the family of differential microphone arrays (DMAs) who have the promise to form frequency-independent responses. Moreover, they have the potential to attain high

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directional gains with small and compact apertures. As a result, this type of microphone arrays has drawn much research and development attention recently. This book is intended to provide a systematic study of DMAs from a signal processing perspective.

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The primary objective is to develop a rigorous but yet simple theory for the design, implementation, and performance analysis of DMAs. The theory includes some signal processing techniques for the design of commonly used first-order,



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second-order, third-order, and  
also the general Nth-order DMAs.  
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patterns such as the dipole,  
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