



# Acoustic Array Systems: Theory, Implementation and Application

## Chapter 5. Nearfield Array Signal Processing Algorithms

5.1 Fourier NAH

5.2 Basis Function Model (BFM)-based NAH

5.3 BEM-based NAH (IBEM): Direct and Indirect Formulations

5.4 Equivalent Source Model (ESM)-based NAH

5.5 Comparison of the Nearfield Algorithms

# Acoustic Array Systems Theory Implementation And Application

**ML Morrison**

## **Acoustic Array Systems Theory Implementation And Application:**

*Acoustic Array Systems* Mingsian R. Bai, Jeong-Guon Ih, Jacob Benesty, 2013-04-30 Presents a unified framework of far field and near field array techniques for noise source identification and sound field visualization from theory to application. *Acoustic Array Systems Theory Implementation and Application* provides an overview of microphone array technology with applications in noise source identification and sound field visualization. In the comprehensive treatment of microphone arrays the topics covered include an introduction to the theory far field and near field array signal processing algorithms practical implementations and common applications vehicles computing and communications equipment compressors fans and household appliances and hands free speech. The author concludes with other emerging techniques and innovative algorithms. Encompasses theoretical background implementation considerations and application know how. Shows how to tackle broader problems in signal processing control and transducers. Covers both farfield and nearfield techniques in a balanced way. Introduces innovative algorithms including equivalent source imaging NESI and high resolution nearfield arrays. Selected code examples available for download for readers to practice on their own. Presentation slides available for instructor use. A valuable resource for Postgraduates and researchers in acoustics noise control engineering audio engineering and signal processing.

**Engineering Noise Control** David A. Bies, Colin H. Hansen, Carl Q. Howard, 2017-12-01 This classic and authoritative student textbook contains information that is not over simplified and can be used to solve the real world problems encountered by noise and vibration consultants as well as the more straightforward ones handled by engineers and occupational hygienists in industry. The book covers the fundamentals of acoustics theoretical concepts and practical application of current noise control technology. It aims to be as comprehensive as possible while still covering important concepts in sufficient detail to engender a deep understanding of the foundations upon which noise control technology is built. Topics which are extensively developed or overhauled from the fourth edition include sound propagation outdoors amplitude modulation hearing protection frequency analysis muffling devices including 4 pole analysis and self noise sound transmission through partitions finite element analysis statistical energy analysis and transportation noise. For those who are already well versed in the art and science of noise control the book will provide an extremely useful reference. A wide range of example problems that are linked to noise control practice are available on [www.causalsystems.com](http://www.causalsystems.com) for free download.

**Engineering Acoustics** Malcolm J. Crocker, Jorge P. Arenas, 2021-01-11 **ENGINEERING ACOUSTICS NOISE AND VIBRATION CONTROL** A masterful introduction to the theory of acoustics along with methods for the control of noise and vibration. In *Engineering Acoustics Noise and Vibration Control* two experts in the field review the fundamentals of acoustics noise and vibration. The authors show how this theoretical work can be applied to real world problems such as the control of noise and vibration in aircraft automobiles and trucks machinery and road and rail vehicles. *Engineering Acoustics Noise and Vibration Control* covers a wide range of topics. The sixteen chapters include the following

Human hearing and individual and community response to noise and vibration Noise and vibration instrumentation and measurements Interior and exterior noise of aircraft as well as road and rail vehicles Methods for the control of noise and vibration in industrial equipment and machinery Use of theoretical models in absorptive and reactive muffler and silencer designs Practical applications of finite element boundary element and statistical energy analysis Sound intensity theory measurements and applications Noise and vibration control in buildings How to design air conditioning systems to minimize noise and vibration Readers whether students professional engineers or community planners will find numerous worked examples throughout the book and useful references at the end of each chapter to support supplemental reading on specific topics There is a detailed index and a glossary of terms in acoustics noise and vibration *Haptics: Perception, Devices, Control, and Applications* Fernando Bello,Hiroyuki Kajimoto,Yon Visell,2016-07-01 The two volume set LNCS 9774 and 9775 constitutes the refereed proceedings of the 10th International Conference EuroHaptics 2016 held in London UK in July 2016 The 100 papers 36 oral presentations and 64 poster presentations presented were carefully reviewed and selected from 162 submissions These proceedings reflect the multidisciplinary nature of EuroHaptics and cover topics such as perception of hardness and softness haptic devices haptics and motor control tactile cues control of haptic interfaces thermal perception robotics and sensing applications *Haptics: Science, Technology, Applications* Ilana Nisky,Jess Hartcher-O'Brien,Michaël Wiertlewski,Jeroen Smeets,2020-09-04 This open access book constitutes the proceedings of the 12th International Conference on Human Haptic Sensing and Touch Enabled Computer Applications EuroHaptics 2020 held in Leiden The Netherlands in September 2020 The 60 papers presented in this volume were carefully reviewed and selected from 111 submissions The were organized in topical sections on haptic science haptic technology and haptic applications This year s focus is on accessibility *Radar and Sonar Imaging and Processing* Andrzej Stateczny,Krzysztof Kulpa,Witold Kazimierski,2021-01-22 The Special Issue Radar and Sonar Imaging Processing is a collection of 21 articles exploring many topics related to remote sensing with radar and sonar sensors In this editorial we present short introductions of the published articles The series of articles in this SI deal with a broad profile of aspects of the use of radar and sonar images in line with the latest scientific trends while making use of the latest developments in science including artificial intelligence It can be said that both radar and sonar imaging and processing still remain a hot topic and much research in this area is being conducted worldwide New techniques and methods for extracting information from radar and sonar sensors and data have been proposed and verified Some of these will stimulate further research while others have reached maturity and can be considered for industrial implementation and development **Microphone Arrays** Jacob Benesty,Gongping Huang,Jingdong Chen,Ningning Pan,2023-08-09 This book explains the motivation for using microphone arrays as opposed to using a single sensor for sound acquisition The book then goes on to summarize the most useful ideas concepts results and new algorithms therein The material presented in this work includes analysis of the advantages of using microphone arrays

including dimensionality reduction to remove the redundancy while preserving the variability of the array signals using the principal component analysis PCA The authors also discuss benefits such as beamforming with low rank approximations fixed adaptive and robust distortionless beamforming differential beamforming and a new form of binaural beamforming that takes advantage of both beamforming and human binaural hearing properties to improve speech intelligibility The book makes the microphone array signal processing theory and applications available in a complete and self contained text The authors attempt to explain the main ideas in a clear and rigorous way so that the reader can easily capture the potentials opportunities challenges and limitations of microphone array signal processing This book is written for those who work on the topics of microphone arrays noise reduction speech enhancement speech communication and human machine speech interfaces

**Musical Instruments** Lamberto Tronchin,2021-02-19 The study of the acoustic and vibrational characteristics of musical instruments in terms of their mechanical behavior sound emission and characteristics started thousands of years ago and among the physicists and mathematicians that addressed this matter we should at least recognize Leonardo da Vinci with his experimental water organ and Ernst Chladni who discovered nodal patterns on rigid surfaces such as soundboards The growing awareness of our intangible cultural heritage and the need to better understand our roots in the field of music have contributed to increasing the efforts to extend our knowledge in this field defining new physical parameters extending the analysis to other musical instruments and developing new methods to synthesize sound from musical instruments using a simple keyboard

*A Directory of Computer Software Applications* ,1979      **Journal of the Audio Engineering Society** Audio Engineering Society,2009 Directory of members published as pt 2 of Apr 1954 issue

**Government Reports Announcements & Index** ,1996-09      [The Journal of the Acoustical Society of America](#)  
Acoustical Society of America,2002      **Unattended Ground Sensor Technologies and Applications** ,2002      **Abstracts of Papers Presented to the American Mathematical Society** American Mathematical Society,2000      [International Aerospace Abstracts](#) ,1996      **IEEE ASSP Workshop on Applications of Signal Processing to Audio and Acoustics** ,2003      [Physics Briefs](#) ,1992      [Electrical & Electronics Abstracts](#) ,1997      **American Doctoral Dissertations** ,2000  
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