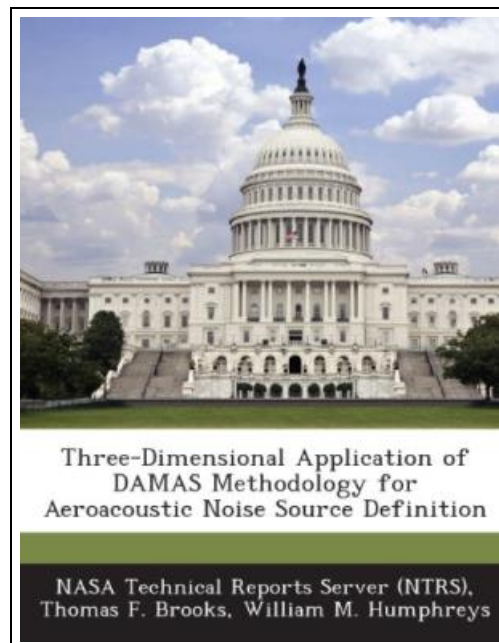


## Three-Dimensional Application of Damas Methodology for Aeroacoustic Noise Source Definition



Filesize: 5.31 MB

### ***Reviews***

*Most of these ebook is the perfect publication accessible. It is writter in easy terms and not difficult to understand. It is extremely difficult to leave it before concluding, once you begin to read the book.*  
**(Anastasia Kihn)**

## THREE-DIMENSIONAL APPLICATION OF DAMAS METHODOLOGY FOR AEROACOUSTIC NOISE SOURCE DEFINITION



To download **Three-Dimensional Application of Damas Methodology for Aeroacoustic Noise Source Definition** PDF, make sure you refer to the web link listed below and save the document or have access to additional information that are have conjunction with THREE-DIMENSIONAL APPLICATION OF DAMAS METHODOLOGY FOR AEROACOUSTIC NOISE SOURCE DEFINITION ebook.

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 26 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. At the 2004 AIAACEAS Aeroacoustic Conference, a breakthrough in acoustic microphone array technology was reported by the authors. A Deconvolution Approach for the Mapping of Acoustic Sources (DAMAS) was developed which decouples the array design and processing influence from the noise being measured, using a simple and robust algorithm. For several prior airframe noise studies, it was shown to permit an unambiguous and accurate determination of acoustic source position and strength. As a follow-on effort, this paper examines the technique for three-dimensional (3D) applications. First, the beamforming ability for arrays, of different size and design, to focus longitudinally and laterally is examined for a range of source positions and frequency. Advantage is found for larger array designs with higher density microphone distributions towards the center. After defining a 3D grid generalized with respect to the array's beamforming characteristics, DAMAS is employed in simulated and experimental noise test cases. It is found that spatial resolution is much less sharp in the longitudinal direction in front of the array compared to side-to-side lateral resolution. 3D DAMAS becomes useful for sufficiently large arrays at sufficiently high frequency. But, such can be a challenge to computational capabilities, with regard to the required expanse and number of grid points. Also, larger arrays can strain basic physical modeling assumptions that DAMAS and all traditional array methodologies use. An important experimental result is that turbulent shear layers can negatively impact attainable beamforming resolution. Still, the usefulness of 3D DAMAS is demonstrated by the measurement of landing gear noise source distributions in a difficult hard-wall wind tunnel environment. This item ships from La Vergne, TN. Paperback.



**Read *Three-Dimensional Application of Damas Methodology for Aeroacoustic Noise Source Definition* Online**

**Download PDF *Three-Dimensional Application of Damas Methodology for Aeroacoustic Noise Source Definition***

## Other PDFs



**[PDF] Games with Books : 28 of the Best Childrens Books and How to Use Them to Help Your Child Learn - From Preschool to Third Grade**

Follow the link beneath to download "Games with Books : 28 of the Best Childrens Books and How to Use Them to Help Your Child Learn - From Preschool to Third Grade" PDF document.

[Save ePub »](#)



**[PDF] Games with Books : Twenty-Eight of the Best Childrens Books and How to Use Them to Help Your Child Learn - from Preschool to Third Grade**

Follow the link beneath to download "Games with Books : Twenty-Eight of the Best Childrens Books and How to Use Them to Help Your Child Learn - from Preschool to Third Grade" PDF document.

[Save ePub »](#)



**[PDF] Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications .**

Follow the link beneath to download "Index to the Classified Subject Catalogue of the Buffalo Library; The Whole System Being Adopted from the Classification and Subject Index of Mr. Melvil Dewey, with Some Modifications ." PDF document.

[Save ePub »](#)



**[PDF] The Frog Tells Her Side of the Story: Hey God, I m Having an Awful Vacation in Egypt Thanks to Moses! (Hardback)**

Follow the link beneath to download "The Frog Tells Her Side of the Story: Hey God, I m Having an Awful Vacation in Egypt Thanks to Moses! (Hardback)" PDF document.

[Save ePub »](#)



**[PDF] Eighth grade - reading The Three Musketeers - 15 minutes to read the original ladder-planned**

Follow the link beneath to download "Eighth grade - reading The Three Musketeers - 15 minutes to read the original ladder-planned" PDF document.

[Save ePub »](#)



**[PDF] Growing Up: From Baby to Adult High Beginning Book with Online Access**

Follow the link beneath to download "Growing Up: From Baby to Adult High Beginning Book with Online Access" PDF document.

[Save ePub »](#)