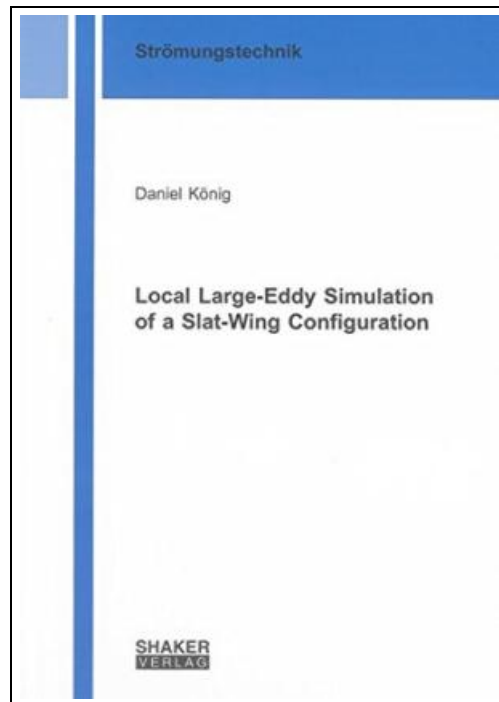


Local Large-Eddy Simulation of a Slat-Wing Configuration



Filesize: 4.41 MB

Reviews

The very best pdf i possibly study. It generally will not expense excessive. You wont really feel monotony at anytime of the time (that's what catalogs are for concerning should you ask me).

(Prof. Owen Sporer)

LOCAL LARGE-EDDY SIMULATION OF A SLAT-WING CONFIGURATION

[DOWNLOAD](#)

To read **Local Large-Eddy Simulation of a Slat-Wing Configuration** PDF, please refer to the link listed below and download the file or have access to additional information which might be have conjunction with LOCAL LARGE-EDDY SIMULATION OF A SLAT-WING CONFIGURATION ebook.

Shaker Verlag Mrz 2010, 2010. Buch. Condition: Neu. Neuware - Noise generated by high-lift devices is an essential part of the emitted sound of an airplane especially during approach when the engines run almost in idle conditions. The sound spectra are characterized by a mix of tonal and broadband components which are originated by the turbulent flow field, i.e., the noise generation is dominated by vortex-vortex and vortexwall interaction. Therefore, in the present study the turbulent flow field over a slat-main wing configuration is investigated by a large-eddy simulation (LES) and subsequently, the obtained unsteady flow data is used to analyze the acoustic field based on the acoustic perturbation equations (APE). The computations are performed at a freestream MACH number of $Ma=0.16$ at an angle of attack of 13 deg. The REYNOLDS number which is based on the clean chord length and the freestream velocity is $Re= 1.4 \times 10^6$. It is shown that a pure LES is not suitable for industrial applications when high REYNOLDS numbers are considered due to the vast required computational effort. Therefore, in the present work a zonal method is developed and implemented which combines the RANS-averaged NAVIER-STOKES (RANS) equations and the spatially filtered NAVIER-STOKES equations solved in a large-eddy simulation, i.e., in regions where unsteady turbulent flow data is required an LES is performed whereas the remaining flow field regions are computed by a RANS simulation which is in terms of computational effort more efficient than an LES. First, the zonal RANS/LES method is validated by turbulent channel flow simulations and, second, it is applied to the slat-main wing configuration. 123 pp. Englisch.

[Read Local Large-Eddy Simulation of a Slat-Wing Configuration Online](#)[Download PDF Local Large-Eddy Simulation of a Slat-Wing Configuration](#)[Download ePUB Local Large-Eddy Simulation of a Slat-Wing Configuration](#)

See Also

**[PDF] Read Write Inc. Phonics: Green Set 1 Storybook 6 Tug, Tug**

Click the hyperlink beneath to download and read "Read Write Inc. Phonics: Green Set 1 Storybook 6 Tug, Tug" PDF file.

[Download Book »](#)

**[PDF] Because It Is Bitter, and Because It Is My Heart (Plume)**

Click the hyperlink beneath to download and read "Because It Is Bitter, and Because It Is My Heart (Plume)" PDF file.

[Download Book »](#)

**[PDF] Read Write Inc. Phonics: Purple Set 2 Non-Fiction 4 What is it?**

Click the hyperlink beneath to download and read "Read Write Inc. Phonics: Purple Set 2 Non-Fiction 4 What is it?" PDF file.

[Download Book »](#)

**[PDF] Way it is**

Click the hyperlink beneath to download and read "Way it is" PDF file.

[Download Book »](#)

**[PDF] What is in My Net? (Pink B) NF**

Click the hyperlink beneath to download and read "What is in My Net? (Pink B) NF" PDF file.

[Download Book »](#)

**[PDF] My Brother is Autistic**

Click the hyperlink beneath to download and read "My Brother is Autistic" PDF file.

[Download Book »](#)

**[PDF] No Friends?: How to Make Friends Fast and Keep Them**

Follow the link listed below to download and read "No Friends?: How to Make Friends Fast and Keep Them" PDF document.

[Read eBook >](#)

**[PDF] A Smarter Way to Learn JQuery: Learn It Faster. Remember It Longer.**

Follow the link listed below to download and read "A Smarter Way to Learn JQuery: Learn It Faster. Remember It Longer." PDF document.

[Read eBook >](#)

**[PDF] Six Steps to Inclusive Preschool Curriculum: A UDL-Based Framework for Children's School Success**

Follow the link listed below to download and read "Six Steps to Inclusive Preschool Curriculum: A UDL-Based Framework for Children's School Success" PDF document.

[Read eBook >](#)

**[PDF] You Shouldn't Have to Say Goodbye: It's Hard Losing the Person You Love the Most**

Follow the link listed below to download and read "You Shouldn't Have to Say Goodbye: It's Hard Losing the Person You Love the Most" PDF document.

[Read eBook >](#)

**[PDF] My Name is Rachel Corrie (2nd Revised edition)**

Follow the link listed below to download and read "My Name is Rachel Corrie (2nd Revised edition)" PDF document.

[Read eBook >](#)

**[PDF] Summer Fit Preschool to Kindergarten Math, Reading, Writing, Language Arts Fitness, Nutrition and Values**

Follow the link listed below to download and read "Summer Fit Preschool to Kindergarten Math, Reading, Writing, Language Arts Fitness, Nutrition and Values" PDF document.

[Read eBook >](#)