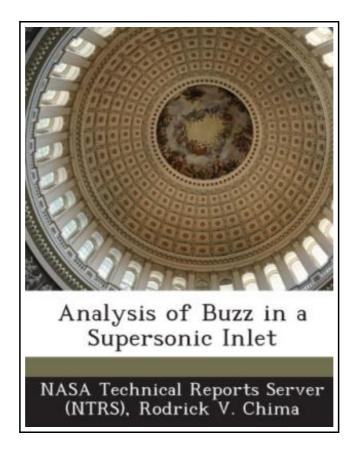
Analysis of Buzz in a Supersonic Inlet



Filesize: 8.49 MB

Reviews

I actually started out reading this article publication. It is loaded with knowledge and wisdom Your way of life span is going to be transform as soon as you total reading this article pdf. (Mrs. Felicia Windler)

ANALYSIS OF BUZZ IN A SUPERSONIC INLET



To read **Analysis of Buzz in a Supersonic Inlet** PDF, please click the hyperlink listed below and save the document or have access to additional information that are relevant to ANALYSIS OF BUZZ IN A SUPERSONIC INLET book.

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 46 pages. Dimensions: 9.7in. x 7.4in. x 0.1in.A dual-stream, low-boom supersonic inlet designed for use on a small, Mach 1. 6 aircraft was tested experimentally in the 8- by 6-Foot Supersonic Wind Tunnel (SWT) at the NASA Glenn Research Center (GRC). The tests showed that the inlet had good recovery and stable operation over large mass flow range. The inlet went into buzz at mass flows well below that needed for engine operation, and the experiments generated a wealth of data during buzz. High frequency response pressure measurements and high-speed schlieren videos were recorded for many buzz events. The objective of the present work was to use computational fluid dynamics (CFD) to predict some of the experimental data taken during buzz, compare those predictions to the experimental data, and to use both datasets to explain the physics of the buzz cycle. The calculations were done with the Wind-US CFD code using a second-order time-accurate differencing scheme and the SST turbulence model. Computed Mach number contours were compared with schlieren images, and ensembleaveraged unsteady pressures were compared to data. The results showed that the buzz cycle consisted partly of spike buzz, an unsteady oscillation of the main shock at the spike tip while the inlet pressure dropped, and partly of choked flow while the inlet repressurized. Most of the results could be explained by theory proposed by Dailey in 1954, but did not support commonly used acoustic resonance explanations. This item ships from La Vergne,TN. Paperback.



Read Analysis of Buzz in a Supersonic Inlet Online



Download ePUB Analysis of Buzz in a Supersonic Inlet

Related Kindle Books



[PDF] Animalogy: Animal Analogies

Click the web link below to read "Animalogy: Animal Analogies" PDF file.

Download eBook »



[PDF] The Whale Tells His Side of the Story Hey God, Ive Got Some Guy Named Jonah in My Stomach and I Think Im Gonna Throw Up

Click the web link below to read "The Whale Tells His Side of the Story Hey God, Ive Got Some Guy Named Jonah in My Stomach and I Think Im Gonna Throw Up" PDF file.

Download eBook »



[PDF] Kindle Fire Tips And Tricks How To Unlock The True Power Inside Your Kindle Fire

Click the web link below to read "Kindle Fire Tips And Tricks How To Unlock The True Power Inside Your Kindle Fire" PDF file.

Download eBook »



[PDF] Memoirs of Robert Cary, Earl of Monmouth

Click the web link below to read "Memoirs of Robert Cary, Earl of Monmouth" PDF file.

Download eBook »



[PDF] Good Night, Zombie Scary Tales

Click the web link below to read "Good Night, Zombie Scary Tales" PDF file.

Download eBook »



[PDF] God Loves You. Chester Blue

Click the web link below to read "God Loves You. Chester Blue" PDF file.

Download eBook »



[PDF] Just So Stories

Click the link beneath to read "Just So Stories" document.

Download PDF »



[PDF] Angels Among Us: 52 Humorous and Inspirational Short Stories: Lifes Outtakes - Year 7

Click the link beneath to read "Angels Among Us: 52 Humorous and Inspirational Short Stories: Lifes Outtakes - Year 7" document.

Download PDF »



[PDF] The Secret Life of Trees DK READERS

Click the link beneath to read "The Secret Life of Trees DK READERS" document.

Download PDF »



[PDF] By the Fire Volume 1

Click the link beneath to read "By the Fire Volume 1" document.

Download PDF »



[PDF] Gypsy Breynton

Click the link beneath to read "Gypsy Breynton" document.

Download PDF »



[PDF] Magnificat in D Major, Bwv 243 Study Score Latin Edition

Click the link beneath to read "Magnificat in D Major, Bwv 243 Study Score Latin Edition" document.

Download PDF »