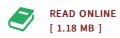




# Highly Variable Cycle Nozzle Concept: Validation of Flow and Noise Predictions

By Michael C. Halbig

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 28 pages. Dimensions: 9.7in. x 7.4in. x 0.1in.Results from experimental and numerical studies of highly Variable Cycle (HVC) exhaust model were presented. The model was designed and fabricated under a Supersonics NRA awarded to Rolls-Royce. The model had a lobed mixer for the core stream nozzle, and elliptic fan stream nozzle, and an ejector. Experiments included far-field acoustic array, phased array, and Particle Image Velocimetry (PIV) measurements. Numerical studies included flow simulations using the WIND-US code and far-field acoustic solutions using an acoustic analogy developed by Goldstein (2003) and Leib and Goldstein (2011). Far-field acoustic measurements showed increased noise levels over the round baseline nozzle when using non-static forward flight conditions. Phased array measurements showed noise sources near the ejector doors when tones were produced for small ejector door positions. Ejector door separation identified in the experiments was reproduced in the numerical flow simulations. Acoustic solutions were unable to match levels measured in the peak jet noise direction indicating additional development work is needed to predict noise from highly three-dimensional flows. This item ships from La Vergne,TN. Paperback.



## Reviews

It becomes an awesome publication that I actually have actually read. It really is writter in simple terms and not difficult to understand. Once you begin to read the book, it is extremely difficult to leave it before concluding.

-- Talia Cormier

Merely no words to spell out. I am quite late in start reading this one, but better then never. I am happy to explain how this is actually the very best publication we have go through within my personal daily life and can be he best ebook for at any time.

-- Althea Christiansen

## See Also



TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (3-5 years) Intermediate (3)(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.Paperback. Pub Date: 2005-09-01 Publisher: Chinese children before making Reading: All books are the Youth Preemployment Training software download generated pictures...



TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(Chinese Edition)

paperback. Book Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Paperback. Pub Date: 2005-09-01 Publisher: Chinese children before making Reading: All books are the Youth Preemployment Training software download generated pictures...



#### It is a Din: Set 01-02: Alphablocks

Pearson Education Limited. Paperback. Book Condition: new. BRAND NEW, It is a Din: Set 01-02: Alphablocks, Joe Elliot, This title is part of Phonics Bug - the first synthetic phonics programme to bring together research-based teaching methods with 100% decodable books....



# Project X Origins: Green Book Band, Oxford Level 5: Making Noise: Tiger's Drum Kit

Oxford University Press. Paperback. Book Condition: new. BRAND NEW, Project X Origins: Green Book Band, Oxford Level 5: Making Noise: Tiger's Drum Kit, Jan Burchett, Sara Vogler, Project X Origins is a ground-breaking guided reading programme for the whole school. Action-packed stories,...



## Study and Master English Grade 6 Core Reader: First Additional Language

Cambridge University Press (South Africa). Paperback. Book Condition: new. BRAND NEW, Study and Master English Grade 6 Core Reader: First Additional Language, Karen Morrison, Fiona Macgregor, Daphne Paizee, Study & Master English First Additional Language has been especially developed by an experienced...



# Read Write Inc. Phonics: Grey Set 7 Storybook 13 the Invisible Clothes

Oxford University Press, United Kingdom, 2016. Paperback. Book Condition: New. Tim Archbold (illustrator). 175 x 148 mm. Language: N/A. Brand New Book. These engaging Storybooks provide structured practice for children learning to read the Read Write Inc. Set 1, 2 and 3...