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# HIGHLY VARIABLE CYCLE NOZZLE CONCEPT: VALIDATION OF FLOW AND NOISE PREDICTIONS



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

NASA Technical Reports Server (NTRS), 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...

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