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Unified application of vapor screen flow visualization and pressure sensitive paint measurement techniques to vortex- and shock wave-dominated flow fields

By -

No binding. Book Condition: New. This item is printed on demand. OCLC Number: (OCoLC)680065379 Excerpt: . . . the vortices. With the porous LEX, the and LEX vortices occurs in the near wake. The identities of the LEX and wing vortices can still wake roll-up and wing tip vortex are also be discerned, but the vortices join to produce a apparent in the LVS image at this station. The cross flow pattern that is characteristic of a PSP and LVS images are more complex in the single, broader vortical flow. The LVS image vicinity of the twin vertical tails. The PSP surface pressure response shows the LEX vortex also suggests the combining of the vortices footprints intersecting the leading edges of the changes the pattern of cross-flow shocks that bound the vortex flows. These results confirm wing-mounted tails. Downstream of this that porosity does not suppress the LEX vortex location, the LEX vortex pressure footprints are flows but, instead, causes a diffusion and no longer visible in the PSP image. A strong, weakening of the vortices. The phenomena intersecting shock system is established between observed at this higher angle and Mach number the twin tails, and a rapid pressure rise...



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