

## Cassiers Magazine (29)



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### ***Reviews***

*Extensive information! Its this type of excellent study. I have read and i am sure that i will gonna go through yet again once more down the road. Once you begin to read the book, it is extremely difficult to leave it before concluding.*

***(Aliyah Mayer)***

## CASSIERS MAGAZINE (29)



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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 64 pages. Original publisher: Hampton, Va. : National Aeronautics and Space Administration, Langley Research Center, 2009 OCLC Number: (OCoLC)637167851 Excerpt: . . . Fig. 29 for no flow control. Three grids are plotted for SST-sf, but only the finest grid result is shown for SST, for clarity of comparison. Profiles of nondimensional  $u_Y$  at four different span stations in and downstream  $u$ -velocity and of the separation bubble are plotted in Figs. 30 and 31, respectively. Again, only the fine grid SST result is displayed for clarity. Within the bubble itself, both SST and SST-sf produced similar velocity profiles, but SST-sf showed faster 1. 1 recovery and better agreement with velocity profiles downstream, at  $x_c$  and 1. 3. SST-sf behaved as it was designed to, producing higher turbulent shear stress levels than SST downstream of separation, in better agreement with experimental levels. Computed separation and reattachment locations for steady suction flow control are shown in Fig. 32. In this case, SST reattached 19 too far downstream on the fine grid, while SST-sf reattached in good agreement with experiment, only 4 too far downstream. Streamlines are shown in Fig. 33. Results using SST-sf were significantly better in comparison with experiment than SST. For reference, the contours on the fine, medium, and coarse grids are  $P_e$  shown in Fig. 34, and corresponding  $F$  contours from the SST-sf solutions  $sf$  are shown in Fig. 35. Fig. 36 shows surface pressure coefficient and skin friction coefficient for  $c$  the suction case ( note that was not measured in the experiment ). Profiles of  $f$  nondimensional  $u_Y$   $u$ -velocity and are given in Figs. 37 and 38, respectively. Results for SST-sf were generally much better than results for SST, although  $x_c$  the...



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