



Cfd-Predicted Tile Heating Bump Factors Due to Tile Overlay Repairs

By Victor R. Lessard

BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 36 pages. Dimensions: 9.7in. x 7.4in. x 0.1in. A Computational Fluid Dynamics investigation of the Orbiters Tile Overlay Repair (TOR) is performed to assess the aeroheating Damage Assessment Teams (DAT) existing heating correlation method for protuberance interference heating on the surrounding thermal protection system.

Aerothermodynamic heating analyses are performed for TORs at the design reference damage locations body points 1800 and 1075 for a Mach 17.9 and a 39deg STS-107 flight trajectory point with laminar flow. Six different cases are considered. The computed peak heating bump factor on the surrounding tiles are below the DATs heating bump factor values for smooth tile cases. However, for the uneven tiles cases the peak interference heating is shown to be considerably higher than the existing correlation prediction. This item ships from La Vergne, TN. Paperback.



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