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Design of Transpiration Cooled Thermal Protection Systems

NASA Technical Reports Server (NTRS), Eugene E. Callens, Robert F. Vinet BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 170 pages. Dimensions: 9.7in. x 7.4in. x 0.4in.This study explored three approaches for the utilization of transpiration cooling in thermal protection systems. One model uses an impermeable wall with boiling water heat transfer at the backface (Model I). A second model uses a permeable wall with a boiling water backface and additional heat transfer to the water vapor as it flows in channels toward the exposed surface (Model...

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