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# THERMAL LOAD CONSIDERATIONS FOR DETONATIVE COMBUSTION-BASED GAS TURBINE ENGINES



Thermal Load Considerations for Detonative Combustion— Based Gas Turbine Engines

NASA Technical Reports Server (NTRS), Daniel E. Paxson, Douglas H. Perkins BiblioGov. Paperback. Book Condition: New. This item is printed on demand. Paperback. 22 pages. Dimensions: 9.7in. x 7.4in. x 0.1in.An analysis was conducted to assess methods for, and performance implications of, cooling the passages (tubes) of a pulse detonation-based combustor conceptually installed in the core of a gas turbine engine typical of regional aircraft. Temperature-limited material stress criteria were developed from common-sense engineering practice, and available material properties. Validated, one-dimensional, numerical simulations were then used to explore a variety of...

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