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2015 Perry McCarty Distinguished Lecture Series featuring Dr. Michael Kavanaugh **J Et Array Impingement With Jet Array Impingement With Crossflow - Correlation of Streamwise Resolved Flow and Heat Transfer Distributions** L. W. Florschuetz, D. E. Metzger, and C. R. Truman Arizona State University Tempe, A rizona Prepared for Lewis Research Center under Grant NSG-3075 National Aeronautics and Space Administration

J et Array Impingement With Crossflow - Correlation of ...

Experiments to investigate heat transfer and pressure loss from jet array impingement are performed on the target wall at high Reynolds numbers. Reynolds numbers up to 450,000 are tested. The presence of a turbulated target wall and its effect on heat transfer enhancement against a smooth surface is investigated.

Impingement Heat Transfer From Jet Arrays on Turbulated ...

Abstract and Figures Jet impingement is an efficient heat transfer method and has been used successfully in cooling of turbine blades in gas turbine engines. However the pressure losses encountered...

(PDF) Pressure Losses for Jet Array Impingement With Crossflow

The necessity for high heat flux cooling over large areas is growing rapidly with the increasing push towards more electric systems. A significant amount of research over the past two decades has conclusively proved the suitability of impingement cooling, such as jet and droplet array, spray, etc.

Liquid Micro-Jet Array Impingement Cooling for Large Area ...

@inproceedings{Gao2003EffectOJ, title={Effect of jet hole arrays arrangement on impingement heat transfer}, author={Lujia Gao}, year={2003} } figure 1.1 figure 1.2 figure 1.3 figure 2.1 table 2.1 figure 2.2 table 2.2 figure 2.3 figure 2.4 figure 2.5 figure 2.6 figure 2.7 figure 2.8 figure 2.9 table ...

Effect of jet hole arrays arrangement on impingement heat ...

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The item Multiple jet impingement heat transfer characteristic : experimental investigation of in-line and staggered arrays with crossflow, L. W. Florschuetz ... [and others] ; prepared for Lewis Research Center under grant NSG-3075 represents a specific, individual, material embodiment of a distinct intellectual or artistic creation found in Indiana State Library.

Multiple jet impingement heat transfer characteristic ...

The jet plate and the impingement plate are shown in Fig. 1. The width of the two plates is 260 mm and the length is 400 mm. The air in the channel is restricted to flow only in two opposite directions as shown in Fig. 1. Nine 0.01 mm thickness stainless steel heating foils are attached to the impingement plate by using a non-conductive adhesive.

Optimum jet-to-jet spacing of heat transfer for staggered ...

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J Et Array Impingement With Crossflow Correlation Of

Two-dimensional arrays of circular jets of air impinging on a heat transfer surface parallel to the jet orifice plate are considered. The air, after impingement, is constrained to exit in a single direction along the channel formed by the surface

and the jet plate.

Streamwise Flow and Heat Transfer Distributions for Jet ...

Bailey and Bunker investigate impingement arrays with inline jets in a "square array", with different axial and lateral jet spacings and relatively low Mach numbers. Included are correlations developed from these data which extend the range of applicability of the correlations presented by Florschuetz et al..

Impingement Cooling - Ligrani Professional WEBSITE

Effects of Jet-to-Target Plate Distance and Reynolds Number on Jet Array Impingement Heat Transfer. GT2013. The Effect of Axisymmetric Profile on Turbine Blade Platform Heat Transfer Distribution. GT2013. Endwall Secondary Flow Control in a High Speed Compressor Cascade With Vortex Generator Jets.

Effect of Hole Spacing on Jet Array Impingement Heat ...

As reported previously for liquid jet impingement, Fig. 5 shows that jet velocity plays a significant role in impingement cooling. For a given liquid mass flux and jet array configuration (e.g., the seven-jet configuration), the increase in velocity increases the heat transfer rate.

An experimental comparison of liquid jet array and spray ...

Data which illustrate the effects of jet-to-target plate distance and Reynolds number on the heat transfer from an array of jets impinging on a flat plate are presented. Considered are Reynolds numbers Re_j ranging from 8200 to 52,000 with isentropic jet Mach numbers of approximately 0.1 to 0.2.

Effects of Jet-To-Target Plate Distance and Reynolds ...

Ischiofemoral impingement (IFI) is an often unrecognized cause of hip pain caused by abnormal contact between the lesser trochanter and the ischium. To date, surgical treatment for those whose pain is not relieved by activity modification and steroid injections has not been defined.

Treatment of ischiofemoral impingement: results of ...

The secondary vortex structure of an impingement jet system is enhanced by V-ribs on both the impingement and target plates. Numerical and experimental investigations are conducted to study the flow field and heat transfer resulting from V-rib turbulators in an impingement cooling configuration.

Experimental and numerical heat transfer investigation of ...

In order to simulate the undercowl flow, the impingement arrays are inserted inside a tunnel that replicates the typical shape of a real engine by-pass duct. Tests were conducted varying both the mainstream Reynolds number and the jets Reynolds number in a range typical of real-engine operative conditions ($Re_j = 2000-10000$, $\beta = 1.05-1.15$).

Experimental and Numerical Analysis of Multiple ...

The array of impinging jets are directed to one flat surface of a channel which is bounded on three sides. Considered are Reynolds numbers ranging from 8,000 to 50,000, jet-to-target plate distances of 1.5D, 3.0D, 5.0D, and 8.0D, and streamwise and spanwise hole spacing of 5D, 8D, and 12D, where D is the impingement hole diameter. In general, the cumulative accumulations of cross-flows, from sequential rows of jets, reduce the effectiveness of each individual jet (especially for jets at ...

Crossflows From Jet Array Impingement Cooling: Effects of ...

Bailey and Bunker investigate impingement arrays with inline jets in a "square array", with different axial and lateral jet spacings and relatively low Mach numbers. Included are correlations developed from these data which extend the range of applicability of the correlations presented by Florschuetz et al. [9].

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