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is frequently updated.

J Et Array Impingement With two-dimensional array of jets is the cooling of the midchord region of gas turbine airfoils. One such arrangement is illustrated in Fig. 1.1. Impingement air from the midchord array flows rearward along the channel formed between the

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inlet plenum and the airfoil envelope,
discharging at the trailing edge.

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A jet array impingement device for
direct body liquid cooling is proposed. •
A high power test facility for up to 800 W
heat power is established. • The low

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temperature rise of 38.7 °C is achieved with heat power of 800 W. • The maximum effective heat transfer coefficient $h = 41,377 \text{ W/m}^2 \cdot \text{K}$ is achieved. •

An immersed jet array impingement cooling device with ...

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correlation of streamwise resolved flow
and heat transfer distributions Article
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Jet array impingement heat transfer is investigated for two phase forced convection of water at atmospheric pressure and subcooling of 7 °C with flow rates up to 660 mL/min. A jet array consisting of nine 1 mm jets with 5 mm inter-jet spacing and a 2 mm jet to target spacing was employed to cool a

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Heat transfer performance of boiling jet array impingement ...

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 in such

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(PDF) Pressure Losses for Jet Array Impingement With Crossflow

The flow asymmetry was also found in numerical simulations of a similar configuration, conducted in a parallel project. Heat transfer measurements were performed in the impingement

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surface for seven multiple jet arrays using LCT, which provided insight in the influence of different geometrical parameters of the arrays on the heat transfer.

Multiple impinging jet arrays. An experimental study on ...

The target surface Nusselt number for

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eleven impingement jets with two repeating boundaries placed at a spacing of 4.03 nozzle diameters and two exit boundaries. This 3-D time accurate numerical ...

Impingement Jet Array Nusselt Number - $y/D=4.03$

the resulting high density of the jet array

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and corresponding small jet height may be impractical to construct and implement, and at small spacings jet-to-jet interaction may degrade efficiency. Prior to the design of an impinging jet device, the heat transfer at the target surface is typically characterized by a Nusselt number (Nu), and the

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**Jet Impingement Heat Transfer:
Physics, Correlations, and ...**

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

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enhancement against a smooth surface is investigated.

Impingement Heat Transfer From Jet Arrays on Turbulated ...

sional array of jets is the cooling of the midchord region of stator and turbine airfoils. One such arrangement is illustrated in Fig. 1.1. Impingement air

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from the midchord array flows rearward along the channel formed between the inlet plenum and the airfoil envelope, discharging at the trailing edge.

Multiple Jet Impingement Characteristic - Experimental

Heat transfer characteristic of an impingement cooling system with

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different nozzle geometry K Marzec¹ and
A Kucaba-Pietal² ¹ Rzeszow University
of Technology, MTU Aero Engines,
Rzeszow, Poland ² Rzeszow University of
Technology, Rzeszow, Poland E-mail:
1k.marzec@prz.edu.pl,
2anpietal@prz.edu.pl Abstract. The
influence of different geometries of the
nozzles of an impingement cooling

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Heat transfer characteristic of an impingement cooling ...

The jet flow, after impingement is constrained to exit in a single direction along the channel formed by the jet orifice plate and the impingement surface. In addition to the crossflow which originates from the jets following

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impingement, an initial (independent) crossflow is present which approaches the array through an upstream extension of ...

Flow Distributions and Discharge Coefficient Effects for ...

Cooling Implementing a Jet Array
Impingement Waterblock and a Tube

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Array Remote Heat Exchanger, Applied Thermal Engineering (2012), doi: 10.1016/j.applthermaleng.2012.01.013
This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript.

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A Liquid-Based System for CPU Cooling Implementing a Jet ...

To improve this well-established cooling mechanism, one part of the SFB is focused on research and development of dynamically forced impingement jet arrays. Due to the generation of strong vortex structures and their interactions with adjacent ones, the local convective

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heat transfer on the target surface can be enhanced.

Experimental Study on the Alteration of Cooling ...

Forced Convection Heat Transfer
Enhancement Using a Self-oscillating
Impinging Planar Jet ... Arrays of
stationary jets are usually impinged on

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surfaces of internal cooling passages. The current practice is to benefit from the high heat transfer coefficients existing ... in the vicinity of the jet impingement region on a target wall. The ...

Forced Convection Heat Transfer Enhancement Using a Self ...

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

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Jet array impingement heat transfer characteristics - CORE

An impingement array is comprised of a jet plate typically having holes which produces the impinging jets. The jets strike the surface to be cooled, the surface referred to as the inside surface of the target plate. Traditionally, according to [1], the structure of an

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impinging jet is broken down into three parts, the potential core, shear ...

Experimental investigation of jet impingement cooling ...

Crossflows from jet array impingement cooling: Hole spacing, target plate distance, Reynolds number effects. International Journal of Thermal

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Sciences, Vol. 88. Cross-flow effects on impingement array heat transfer with varying jet-to-target plate distance and hole spacing.

Mach Number, Reynolds Number, Jet Spacing Variations: Full ...

Read "Jet-array impingement heat transfer in a concentric annular channel

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