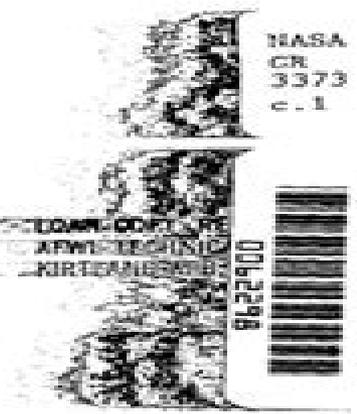


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Jet Array Impingement With Crossflow - Correlation of Streamwise Resolved Flow and Heat Transfer Distributions

L. W. Florschuetz, D. E. Metzger,
and C. R. Truman

GRANT NSG-3075
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Jet Array Impingement With Crossflow Correlation Of:

Jet Array Impingement with Crossflow-correlation of Streamwise Resolved Flow and Heat Transfer Distributions L. W. Florschuetz,1981 *Jet Array Impingement with Crossflow - Correlation of Streamwise Resolved Flow and Heat Transfer Distributions* L. W. Florschuetz,1981 **Jet Array Impingement with Crossflow - Correlation of Streamwise Resolved Flow and Heat Transfer Distributions** L. W. Florschuetz,1981 Correlations for heat transfer coefficients for jets of circular orifices and impinging on a surface parallel to the jet orifice plate are presented The air following impingement is constrained to exit in a single direction along the channel formed by the jet orifice plate and the heat transfer impingement surface The downstream jets are subjected to a crossflow originating from the upstream jets Impingement surface heat transfer coefficients resolved to one streamwise jet orifice spacing averaged across the channel span are correlated with the associated individual spanwise orifice row jet and crossflow velocities and with the geometric parameters NTRL site **Jet Array Impingement Flow Distributions and Heat Transfer Characteristics** ,1982 **Jet Array Impingement Flow Distributions and Heat Transfer Characteristics. Effects of Initial Crossflow and Nonuniform Array Geometry** L. W. Florschuetz,1982 NASA Technical Paper ,1984 Scientific and Technical Aerospace Reports ,1983 Heat Transfer Characteristics Within an Array of Impinging Jets. Effects of Crossflow Temperature Relative to Jet Temperature ,1985 Spanwise average heat fluxes resolved in the streamwise direction to one stream wise hole spacing were measured for two dimensional arrays of circular air jets impinging on a heat transfer surface parallel to the jet orifice plate The jet flow after impingement was constrained to exit in a single direction along the channel formed by the jet orifice plate and heat transfer surface The crossflow originated from the jets following impingement and an initial crossflow was present that approached the array through an upstream extension of the channel The regional average heat fluxes are considered as a function of parameters associated with corresponding individual spanwise rows within the array A linear superposition model was employed to formulate appropriate governing parameters for the individual row domain The effects of flow history upstream of an individual row domain are also considered The results are formulated in terms of individual spanwise row parameters A corresponding set of streamwise resolved heat transfer characteristics formulated in terms of flow and geometric parameters characterizing the overall arrays is described **Heat Transfer and Correlations of Jet Array Impingement with Flat and Pimple-dimpled Plate** Husam Zawati,2020 The physical mechanisms that cause the change in heat transfer normalized by Nusselt number when comparing both configurations are discussed in two regions impingement and crossflow **Heat Transfer Characteristics Within an Array of Impinging Jets** L. W. Florschuetz,1985 ASME Technical Papers ,2001 *Journal of Thermophysics and Heat Transfer* ,2002 This journal is devoted to the advancement of the science and technology of thermophysics and heat transfer through the dissemination of original research papers disclosing new technical knowledge and exploratory developments and applications based on new

knowledge It publishes papers that deal with the properties and mechanisms involved in thermal energy transfer and storage in gases liquids and solids or combinations thereof These studies include conductive convective and radiative modes alone or in combination and the effects of the environment *Review and Status of Heat-transfer Technology for Internal Passages of Air-cooled Turbine Blades* Frederick C. Yeh,1984 **NASA Contractor Report** ,1985 *Proceedings of the ASME Heat Transfer Division* ,2001 Turbine Engine Hot Section Technology (HOST) ,1983 **Proceedings of the ASME Heat Transfer Division** R. A. Nelson,1998 Heat Transfer in Convective Flows R. K. Shah,1989 Journal of Engineering for Power ,1983 **Heat Transfer 1986** Chang L. Tien, Van P. Carey, James K. Ferrell,1986-09-01

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