

# Jet Array Impingement With Crossflow Correlation Of

Jet Array Impingement Flow Distributions and Heat Transfer Characteristics  
Jet Array Impingement Flow Distributions and Heat Transfer Characteristics. Effects of Initial Crossflow and Nonuniform Array Geometry  
NASA Technical Memorandum  
NASA Technical Paper  
Impingement Jet Cooling in Gas Turbines  
Toward Improved Durability in Advanced Aircraft Engine Hot Sections  
Selected Papers from PRES 2018  
Thermal Management for Optoelectronics Packaging and Applications  
Toward Improved Durability in Advanced Aircraft Engine Hot Sections  
Journal of Thermophysics and Heat Transfer  
Review and Status of Heat-transfer Technology for Internal Passages of Air-cooled Turbine Blades  
Applied Mechanics Reviews  
Heat/mass Transfer Flow Through an Array of Holes and Slits  
Mixed Convection Heat Transfer, 1991  
Paper  
Enhanced Cooling Techniques for Electronics Applications  
Winter Annual Meeting  
Comparison of the Cooling Effectiveness of Superheated Steam and Hot Air in Internal Turbine Blade Cooling  
Heat Transfer Measurements and Analysis  
Documents Du Congrès International de la Recherche Gazi  
re L. W. Florschuetz R.S. Amano Ji Jarom Kleme Xiaobing Luo Daniel E. Sokolowski Frederick C. Yeh Hyung Hee Cho Darrell W. Pepper  
American Society of Mechanical Engineers. Winter Annual Meeting  
American Society of Mechanical Engineers  
Ramakrishnan Pudupatty L. C. Chow  
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 Engineers Ramakrishnan Pudupatty L. C. Chow

due to the requirement for enhanced cooling technologies on modern gas turbine  
 engines advanced research and development has had to take place in field of  
 thermal engineering among the gas turbine cooling technologies impingement jet  
 cooling is one of the most effective in terms of cooling effectiveness  
 manufacturability and cost the chapters contained in this book describe research  
 on state of the art and advanced cooling technologies that have been developed  
 or that are being researched with a variety of approaches from theoretical  
 experimental and cfd studies the authors of the chapters have been selected from  
 some of the most active researchers and scientists on the subject this is the first  
 to book published on the topics of gas turbines and heat transfer to focus on  
 impingement cooling alone

the depletion of natural energy resources provides evidential adverse impacts on  
 world economy functionality the strong requirement of a sustainable energy supply  
 has escalated intensive research and the discovery of cleaner energy sources as

well as efficient energy management practices in the context of a circular economy this research not only targets the optimisation of resources utilisation at different stages but also emphasises the eco design of products to extend production life spans based on this concept this book discusses the roles of process integration approaches renewable energy sources utilisation and design modifications in addressing the process energy and exergy efficiency improvement the primary focus is to enhance the economic and environmental performance through process analysis modelling and optimisation the articles mainly show the contribution of each aspect a design and numerical study for innovative energy efficient technologies b process integration heat and power c process energy efficiency or emission analysis and d optimisation of renewable energy resources supply chain the articles are based on the latest contribution of this journal s special issues in the 21st conference entitled process integration modelling and optimisation for energy saving and pollution reduction pres this book is complemented with an editorial review to highlight the broader state of the art development

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