
Film Cooling Enhancement Secondary Flow Injection

an experimental study of compressibility effects on the ... - an experimental study of compressibility effects ... enhancement of film cooling ... flow visualization and film cooling measurements both showed that the secondary ... **dynamic and thermodynamic analysis of film-cooling** - film cooling is one of the most effective external cooling methods. ... decreased with blowing ratio enhancement, ... secondary flow. **secondary flow and heat transfer coefficient distributions ...** - secondary flow and heat transfer coefficient distributions in the ... coupled to the enhancement of heat transfer coefficient. ... film cooling, internal impingement ... **enhancement of film effectiveness of cooling holes with ...** - enhancement of film effectiveness of cooling holes with fan- ... boundaries of the main flow as well as secondary flow to attain **numerical investigation of film cooling enhancement using ...** - numerical investigation of film cooling enhancement using an upstream sand-dune-shaped ramp ... for the secondary flow, the temperature t_c was 300 k **heat transfer performance improvement technologies for hot ...** - presence of complex secondary flows makes the cooling of the ... film cooling involves passing cold air from ... transfer enhancement provided by v-shaped ... **optimization of turbine blade cooling with the aim of ...** - optimization of turbine blade cooling with the aim of overall turbine performance enhancement authors ... methods can be categorized into film cooling **numerical investigation of film cooling effectiveness ...** - numerical investigation of film cooling effectiveness ... one can see the great enhancement in the lateral spreading of ... the secondary-flow velocity vectors ... **film cooling from a row of holes supplemented with anti ...** - film cooling from a row of holes supplemented with anti vortex holes a thesis ... secondary flow vectors colored by **effects of surface deposition and droplet injection on ...** - effects of surface deposition and droplet injection on film ... the phenomenon of mist secondary flow ... in order to evaluate cooling enhancement, ... **simulation of mist film cooling at gas turbine operating ...** - simulation of mist film cooling at gas turbine operating conditions ... achieves 5%-10% cooling enhancement and ... simulating mist film cooling over a flat ... **improvement of flat-plate film cooling performance by ...** - improvement of flat-plate film cooling performance by double flow control devices: part i - investigations on capability of a base-type device **on the improvement of film cooling performance using tree ...** - film cooling technology is widely used for ... and found that the enhancement of the mist of the cooling ... a inclination angle of the film hole q_c secondary flow ... **experimental and analysis of the effectiveness of film ...** - experimental and analysis of the effectiveness of film cooling in gas ... results of enhancement in ... the main and the secondary holes of the film cooling hole ... **advances in gas turbine blade cooling technology - wit press** - advances in gas turbine blade cooling technology ... external surface film cooling, (3) ... the enhancement of internal **bump and trench modifications to film-cooling holes at the ...** - to film-cooling holes at the ... cated that a row trench placed along the row of film-cooling holes showed a greater enhancement in adiabatic ... secondary flow ... **conjugate heat transfer simulations for a film cooled ...** - conjugate heat transfer simulations for a film cooled nozzle guide vane of a high-efficiency, industrial gas turbine ... process of advanced film-cooling ... **chapter 7 innovative gas turbine cooling techniques** - innovative gas turbine cooling techniques ... all such engines additionally cool the interfaces and secondary flow ... film cooling is the practice of bleeding **experimental investigation of turbine blade platform film ...** - experimental investigation of turbine blade ... experimental investigation of turbine blade platform film cooling ... of heat transfer enhancement in the cooling ... **an experimental study of momentum-preserving shaped holes ...** - an experimental study of momentum-preserving shaped holes for film ... enhancement of film cooling ... study of momentum-preserving shaped holes for ... **proc imeche part a: effect of non-axisymmetric contouring ...** - film cooling effectiveness, ... engine performance, heat transfer enhancement, turbomachinery, aerodynamics date received: 9 ... secondary flow loss ... **overall effectiveness of a blade endwall with jet ...** - enhancement features in a lamilloyvr snowflake design. ... sage secondary flows and has been previously reported for this ... film cooling / **spray cooling - intech - 13 spray cooling zhibin yan 1, rui zhao 1,** ... presence of secondary ... formed over the heated surface when spray cooling is initiated. this film is usually very thin **secondary flows and extra heat transfer enhancement of ...** - secondary flows and extra heat transfer enhancement ... including ribs, pin fins, dimples, jet impingement, film cooling, etc **numerical investigation of heat transfer in square duct ...** - numerical investigation of heat transfer in square ... enhancement in heat transfer from the heated wall to ... film cooling flow, platform secondary flow and surface ... **film-cooling enhancement of the mist vertical wall jet on ...** - film-cooling enhancement of the mist vertical wall jet on the cylindrical channel surface with heat transfer results of a numerical study of heat and mass transfer in ... **heat transfer and aerodynamics studies of multiple cooling ...** - heat transfer and aerodynamics studies of multiple cooling ... film cooling effectiveness distribution ... higher turbulent level is due to the enhancement of the ... **the effect of cooling passage aspect ratio on curvature ...** - on curvature heat transfer enhancement ... secondary flows that enhance heat transfer to the ... the effect of cooling passage aspect ratio on curvature heat transfer **proceedings of gt2011 - eccc.uno** - proceedings of turbo expo 2011 gt2011 ... the secondary flows created due to channel bend ... simulated the mist/air film cooling enhancement over a **recent studies in internal cooling of gas**

turbine blade: a ... - enhancement was observed for ... internal cooling zones in a turbine blade with strategic film cooling in the ... effect of dimples and secondary ... **fifth international conference on cfd in the process ...** - thin film. secondary electrons are also emitted from the ... cooling system, ... cooling effect enhancement in magnetron sputtering in ... **gas turbine heat transfer and cooling technology - gbv** - secondaryflows 130 2.9.1.3 endwallheat ... 3.11.1 film-cooling-holegeometry 276 3.11.1.1 effectofcooling-hole exitshape andgeometry 276 ... 4.1.2 heat ... **parametric investigation into the surface augmentation and ...** - cooling capabilities using a variety of pool boiling enhancement techniques. ... falling film cooling places less demands on ... secondary condensate tonx ... **turbine thermal management - netle** - cooling technology concepts that achieve a cooling enhancement factor of approximately five times that of ... advanced film cooling secondary flow rotating rig **combined jets cooling-full5 - nipponidanfo** - combined jets system are the same ... in film cooling process, the secondary ... our results show a significant enhancement in film cooling effectiveness with a ... **gas turbine blade cooling technology a case study** - shows the dimple induced secondary flow. these ... angle, and shape) affect film-cooling ... enhancement features allows turbine designers to have **enhanced thermoelectric performance of pedot:pss flexible ...** - enhanced thermoelectric performance of pedot:pss flexible bulky ... and cooling mode (based on the peltier ... film thickness was measured using alpha step surface ... **hole configuration effect on turbine vane leading edge ...** - hole configuration effect on turbine vane leading edge film cooling effectiveness ... secondary or coolant flow and the solid domains. **increasing heat exchanger performance** - increasing heat exchanger performance ... u is a function of the heat transfer film coefficients, h , ... novel heat transfer enhancement can be evaluated using basic ... **CHF enhancement in flowing fluorocarbon liquid films using ...** - in electronic cooling ... the present study has focused on the enhancement of boiling in a liquid film of ... bn plate adjoining the secondary ... **technology of daihatsu de series engine - dhtd** - de series engine environmentally ... film thickness, reducing oil film pressure ... cooling enhancement around the exhaust valve seat by effective cooling **enhancement of heat transfer coefficient through helical coil** - contribution of secondary vortices formed as a result of ... cooling and heating application since the centrifugal forces ... enhancement may be achieved by ... **gas flow humidification enhancement by evaporating ...** - gas flow humidification enhancement by evaporating seawater liquid film m. najima, ... effect of the surface tension and other secondary **recent studies in turbine blade cooling** - recent studies in turbine blade cooling ... rotational effect, film cooling, ... disturb only the near-wall flow for heat transfer enhancement. **sushil sharma - medsil** - cooling enhancement ... secondary systems are not ... reasonable temperature range for cooling si reasonable film coefficient for heat transfer **improving the film cooling of a rotor blade platform** - improving the film cooling of a rotor blade platform ... hence an enhancement of ... to evaluate the interaction of injected flow with secondary ...

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