

How to control casing heat transfer during shutdown?

It has been found that the baseline case with no methods for controlling the casing heat transfer during shutdown gave a non uniform casing heat flux, which would lead to casing distortion. Two methods were investigated in order to control the casing heat transfer during shutdown and reduce the casing heat flux non-uniformity.

How to reduce non-uniformity of casing heat transfer?

Another method for reducing the non-uniformity of casing heat transfer is flow extraction from the gas turbine casing. Instead of injecting air into the casing as in the purge case, flow is extracted in order to reduce the stratified flow at the top of the casing.

How is heat transfer distributed in a purge case?

A purge case simulation was conducted in order to observe the heat transfer distribution using this system. The proposed method for controlling the outer casing heat transfer is extraction-based. Instead of injecting air into the casing, flow is extracted from the casing, with the aim of removing the thermally stratified layer of air.

Does a new extraction method improve uniformity of casing heat transfer?

A baseline case with no active method for reducing the casing heat transfer was compared with purge and flow extraction methods. It was found that the new proposed extraction method improved the uniformity of the casing heat transfer during the initial shutdown period.

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In the refrigeration industry, cooling towers are mainly used for condensing and heat dissipation in fields such as cold storage, air conditioners, and heat pumps.

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In this study, unsteady numerical simulations are applied to explore the flow mechanism responsible for the stability enhancement of a low-reaction (LR) transonic compressor rotor with ultra ...

In addition, ice, chemical packs and other hard-surface cooling devices are often too cold, left on too long, applied too often and improperly placed, thereby creating "cold-spots", where the unequal cold ...

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