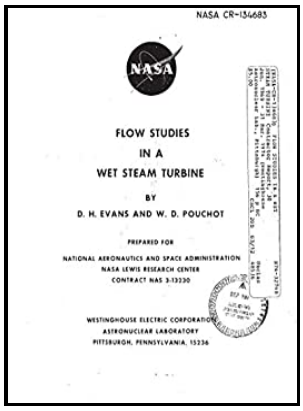
On the performance of rotor blades in wet steam

University of Birmingham - Last



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Pitting, corrosion fatigue, and stress corrosion cracking problems all occur in steam turbines. Reduced LP compressor surge margin due to decreased mass flow: The reduced intercooling means the HP compressor referred speed and hence referred flow are reduced by the higher inlet temperature. Phair, in , 2016 11.

Case Study

. As steam expands through a turbine, the solubility of contaminants in the steam decreases. One opportunity is to increase the exhaust area through increasing either rotor diameter or length of the last stage blades.

Last

In a fouled condition, this 30-MW turbine lost over 5% of its generating capacity. In some cases, particularly in BWR applications, cobalt based alloys are prohibited in the steam path and other shield materials are then considered. The main steam discharging into the HP turbine is saturated but the steam quality is around 0.

Water Handbook

The hardening process is automated and fully adapted to the selected blade style.

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