



Power plant blades

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Power Services Group (PSG) is a trusted turnkey provider of turbine blade and bucket replacement, installation, and complete rotor repair services. With over 30 years of experience and a commitment ...

Our purpose is to investigate how turbine performance and operability are affected by the current trend of lengthening LSBs. The article ...

Several cases relating the damage mechanisms associated with blades failures, e.g., corrosion-erosion, carbides precipitation, oxidation, coating degradation, high and low cycle fatigue, ...

OverviewCoolingIntroductionEnvironment and failure modesMaterialsNotesAt a constant pressure ratio, thermal efficiency of the engine increases as the turbine entry temperature (TET) increases. However, high temperatures can damage the turbine, as the blades are under large centrifugal stresses and materials are weaker at high temperature. So, turbine blade cooling is essential for the first stages but since the gas temperature drops through each stage it is not required for later stages suc...

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