

High temperature turbines - papers presented at the 36th meeting of the AGARD Propulsion and Energetics Panel held at the Scuola di Guerra Aerea, Florence, Italy, 21-25 September 1970.

Agard - High



Description: -

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Within the family of MMCs, metal alloys with intermetal phases are the most promising solution for high-temperature applications in gas turbines. This alloy has extraordinarily good properties at high temperatures; paradoxically, it is at low temperatures where the problems arise as it becomes more brittle. Usually, possess the adequate mechanical properties, but at high temperatures, they easily get deformed by creep and oxidation becomes a problem

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CMCs have been under research for decades and are now set to appear in hot components of gas turbine engines.

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They rotate at high speed; therefore, they need to sustain high mechanical loads, and they need to work at temperatures over 1000°C. Zok, Ceramic-matrix composites enable revolutionary gains in turbine engine efficiency, Am. The relative importance of manufacturing processes, material developments, cooling techniques, analytical design procedures, rupture and cyclic life considerations, and aerodynamic and mechanical design improvements are discussed along with illustrative examples and technical data.

High

Kruth, Turbomachinery component manufacture by application of electrochemical, electro-physical and photonic processes, CIRP Ann.

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