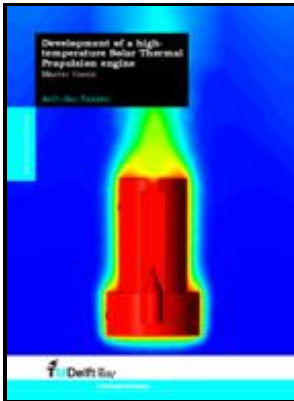


# High temperature turbines - papers presented at the 36th meeting of the AGARD Propulsion and Energetics Panel held at the Scuola di Guerra Aerea, Florence, Italy, 21-25 September 1970.

## Agard - High Temperature Turbine Design Considerations



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## High Temperature Turbine Design Considerations

One of the challenges of SiC-based CMCs is their vulnerability to combustion environments; however, alternatives based on eutectic-oxide CMCs are already being developed Fig. Increasing the operational temperature is usually seen as the most important factor to improve efficiency, and for that, new materials are required.

### High

Gas turbines are prominent pieces of engineering with high material standards.

## High Temperature Turbine Design Considerations

The major technological developments which have made possible the trend towards higher temperatures in modern aircraft gas turbine engines are discussed. Within the family of MMCs, metal alloys with intermetal phases are the most promising solution for high-temperature applications in gas turbines.

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Franta, Advanced Materials and Processes for the Next Generation of Gas Turbine Design, Power Eng. On the other hand, materials with excellent oxidation resistance at high temperatures, such as , are usually too brittle for the requirements of a turbine.

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