Flashback Mechanisms in Lean Premixed Gas Turbine Combustion

Description: Blending fuels with hydrogen offers the potential to reduce NOx and CO2 emissions in gas turbines, but doing so introduces potential new problems such as flashback. Flashback can lead to thermal overload and destruction of hardware in the turbine engine, with potentially expensive consequences. The little research on flashback that is available is fragmented. Flashback Mechanisms in Lean Premixed Gas Turbine Combustion by Ali Cemal Benim will address not only the overall issue of the flashback phenomenon, but also the issue of fragmented and incomplete research.

- Presents a coherent review of flame flashback (a classic problem in premixed combustion) and its connection with the growing trend of popularity of more-efficient hydrogen-blend fuels
- Begins with a brief review of industrial gas turbine combustion technology
- Covers current environmental and economic motivations for replacing natural gas with hydrogen-blend fuels

Contents:

- Introduction
- An Overview of Modern Lean Premixed Gas Turbine Combustion Technology
- Review of Combustion Aerodynamics of Premixed Swirl Burners
- Properties of Fuels
- The Flashback Phenomenon
- Flashback in Gas Turbine Combustors
- The Role of Fuel Injection Jets in the Premixer: Flameholding

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