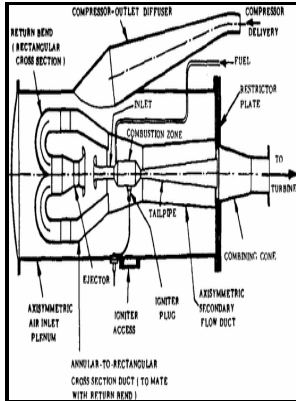


Emissions from a gas-burning pulse combustor

Middlesex University - Experimental study of the gaseous and particulate matter emissions from a gas turbine combustor burning butyl butyrate and ethanol blends



Description: -

-Emissions from a gas-burning pulse combustor

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Tags: #Cheap #Energy

Emissions Formation In Gas Turbine Combustors

Pilot mixer 42 also includes a pair of concentrically mounted swirlers 60. Both the main and pilot mixers are located upstream of the combustion chamber. The seven-stage process starts with a device that pulls oxygen from the air which it sends to a combustor.

Gas Turbine Combustor Concepts For Low Pollutant Emissions

Pilot inner swirler 62 is annular and is circumferentially disposed around pilot centerbody 54.

Emissions Formation In Gas Turbine Combustors

Poor mixing and hot spots can occur both at the dome, where the injected fuel must vaporize and mix prior to burning, and in the vicinity of the dilution holes, where air is added to the rich dome mixture. The annular centerbody extends between the pilot mixer and the main mixer. However, it introduces more complicated mechanical and control issues.

Experimental study of the gaseous and particulate matter emissions from a gas turbine combustor burning butyl butyrate and ethanol blends

This figure shows that large quantities of CO are formed at temperatures below 1680 K, whereas excessive NO_x formation occurs at temperatures above 1900 K.

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