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The primary new aspect of this third edition
is the addition of an entirely new
chapter—Chapter 10—on gas turbine fuels. Both~~

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petroleum-derived and alternative liquid fuels, as well as the various gaseous fuels of interest, are addressed. As such, this addition covers a technology area of ever-growing significance. Valuable and detailed compilations of the physical and combustion properties of these various fuel types are presented.

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The alternative source of renewable fuels for industrial power generation gas turbines is that of hydrogen derived from renewable or nuclear electricity or from coal or biomass gasification using the water gas

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in Gas Turbines~~

Aug 30, 2020 gas turbine combustion
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combustion performance therefore one needs to

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consider the changes in fuel properties when investigating the h c effects on engine performance considering the typical straight chain

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Reflecting the developments in gas turbine combustion technology that have occurred in the last decade, Gas Turbine Combustion: Alternative Fuels and Emissions, Third Edition provides an up-to-date design manual and research reference on the design, manufacture, and operation of gas turbine

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combustors in applications ranging from aeronautical to power generation. Essentially self-contained, the book only requires a moderate amount of prior knowledge of physics and chemistry.

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Figure 13 shows the atmospheric ignition performance of a gas turbine can type combustor operating with a range of alternative fuels. The ignition performance shows that biodiesel has the worst performance with kerosene having the best and petro diesel in between.

~~Aviation gas turbine alternative fuels: A~~

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Boca Raton: CRC Press,

<https://doi.org/10.1201/9781420086058>.

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The alternative fuel blends produced fewer
particles than JetA1 fuel. The alternative
source of renewable fuels for industrial
power generation gas turbines is that of
hydrogen derived from renewable or nuclear

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Electricity or from coal or biomass gasification using the water gas shift reaction and CO₂ solvent extraction to leave a pure hydrogen fuel.

~~Combustion and emissions of alternative fuels in gas turbines~~

The most common gaseous fuel for industrial gas turbines is natural gas. However, global interests in alternative energy and energy storage efforts has led to the increase in interest of gasified biofuels, synthetic gas blends, and by-product gases such as coke-oven gas (COG) and blast furnace gas which

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can be sourced from steel production.

~~Impact of Fuel Composition on Gas Turbine Engine ...~~

Combustion characteristics of gas turbine alternative fuels An experimental investigation was conducted to obtain combustion performance values for specific heavyend, synthetic hydrocarbon fuels. A flame tube combustor modified to duplicate an advanced gas turbine engine combustor was used for the tests.

~~NASA Technical Reports Server (NTRS)~~

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GE has more than 400 gas turbine fuel and combustion experts that are leading the industry in developing solutions for expanded fuels capability. Our experts can test nearly any fuel used in gas turbines at our world-class facilities, like the Greenville Combustion Lab.

~~Turbine Fuel Technologies | Fuel Capability
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The effect alternative fuels have on gaseous emissions regulated by the International Civil Aviation Organisation (ICAO) Committee on Aviation Environmental Protection (CAEP)

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is discussed and shown to be engine hardware dependant. Experimental data, from an Auxiliary Power Unit (APU) engine, are provided showing how, although the Gas to Liquid (GtL) and Coal to Liquid (CtL) FT fuels may not reduce GHG emissions, even with Carbon Capture and Sequestration (CCS), the local air quality around ...

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