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turbine run up in  
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\u0026amp; How it

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1 How Jet Engines

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The primary new

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Aspect of this third edition is the addition of an entirely new chapter—Chapter 10—on gas turbine fuels. Both petroleum-derived and alternative liquid fuels, as well as the various gaseous fuels of interest, are addressed. As

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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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ve Fuels and  
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The alternative  
source of  
renewable fuels for

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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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needs to 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

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and research reference on the design, manufacture, and operation of gas turbine combustors in applications ranging from aeronautical to power generation. Essentially self-contained, the book only requires a moderate

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amount of prior  
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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

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that biodiesel has the worst performance with kerosene having the best and petrodiesel in between.

~~Aviation gas turbine alternative fuels: A review ...~~  
Boca Raton: CRC Press, <https://doi.org/10.1201/9781420086058>. Reflecting



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provides an up-to-  
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and research

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reference on the  
design,  
manufacture, and  
operation of gas  
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in applications  
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## Combustion

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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

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hydrogen derived from renewable or nuclear electricity or from coal or biomass gasification using the water gas shift reaction and CO<sub>2</sub> solvent extraction to leave a pure hydrogen fuel.

~~Combustion and  
emissions of~~

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~~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



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gas blends, and by-product gases such as coke-oven gas (COG) and blast furnace gas which can be sourced from steel production.

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

...

Combustion

*Page 33/40*

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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

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modified to duplicate an advanced gas turbine engine combustor was used for the tests.

~~NASA Technical Reports Server (NTRS)~~

GE has more than 400 gas turbine fuel and combustion

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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

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Combustion Lab.

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The effect  
alternative fuels  
have on gaseous  
emissions  
regulated by the  
International Civil  
Aviation  
Organisation

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(ICAO) Committee on Aviation

Environmental Protection (CAEP)

is discussed and shown to be engine hardware dependant.

Experimental data, from an Auxiliary Power Unit (APU) engine, are provided showing how, although the

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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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