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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

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Figure 13 shows the
atmospheric ignition

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with a range of alternative
fuels. The ignition
performance shows that
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performance with kerosene
having the best and petro

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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

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research reference on the design, manufacture, and operation of gas turbine combustors in applications ranging from aeronautical to po.

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gas turbines is that of hydrogen derived from renewable or nuclear electricity or from coal or biomass gasification using the water gas shift reaction and CO₂ solvent extraction to leave a pure hydrogen

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

The most common gaseous fuel
for industrial gas turbines
is natural gas. However,

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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)

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and blast furnace gas which
can be sourced from steel
production.

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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

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turbine engine combustor was
used for the tests.

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turbine fuel and combustion
experts that are leading the

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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.

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shown to be engine hardware
dependant. Experimental
data, from an Auxiliary
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provided showing how,

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