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the bureau of mines developed a rapid test method for predicting the stability of motor gasoline during long term storage the amounts of gum and inorganic residue formed in 13 gasolines during a 16 hour oven test at 200f were compared with the amounts formed in the same gasolines stored at 110f by use of a modified arrhenius equation the 110f storage time can be extrapolated to equivalent time at any temperature below 110f by combining the stability prediction method with the mathematical extrapolation the storage performance of motor gasoline for extended periods can be estimated at any temperature up to 110f author bijna 4000 referenties zijn in deze bibliografie verzameld de selectie werd beperkt door uitsluitend referenties te verzamelen die betrekking hebben op methyl of ethyl en bovendien afkomstig zijn van biomassa bronnen de referenties zijn gerangschikt in hoofdstukken zoals veevoeder produktiemethoden bijprodukten brandstof voor voertuigen uitgezonderd vliegtuigen en raketten en economische milieu en politieke aspecten uitgesloten werden patenten en niet meer beschikbare rapporten ook beperkt deze bibliografie zich tot in het engels geschreven documenten ondanks de beperkingen is het een indrukwekkende hoeveelheid literatuur over alcoholic fuels voor alcoholic fools men realizere zich echter dat het niet bestemd is voor alcoholic fools die experimenteren met het gebruik van alcoholic fuels voor hun eigen energievoorziening the first two editions of this title published by sae international in 1990 and 1995 have been best selling definitive references for those needing technical information about automotive fuels this long awaited new edition has been thoroughly revised and updated yet retains the original fundamental fuels information that readers find so useful this book is written for those with an interest in or a need to understand automotive fuels because automotive fuels can no longer be developed in isolation from the engines that will convert the fuel into the power necessary to drive our automobiles knowledge of automotive fuels will also be essential to those working with automotive engines small quantities of fuel additives increasingly play an important role in bridging the gap that often exists between fuel that can easily be produced and fuel that is needed by the ever more sophisticated automotive engine this book pulls together in a single extensively referenced volume the three different but related topics of automotive fuels fuel additives and engines and shows how all three areas work together it includes a brief history of automotive fuels development followed by chapters on automotive fuels manufacture from crude oil and other fossil sources one chapter is dedicated to the manufacture of automotive fuels and fuel blending components from renewable sources the safe handling transport and storage of fuels from all sources are covered new combustion systems to achieve reduced emissions and increased efficiency are discussed and the way in which the fuels physical and chemical characteristics affect these combustion processes and the emissions produced are included there is also discussion on engine fuel system development and how these different systems affect the corresponding fuel requirements because the book is for a global market fuel system technologies that only exist in the legacy fleet in some markets are included the way in which fuel requirements are developed and specified is discussed this covers test methods from simple laboratory bench tests through engine testing and long term test procedures this report documents a series of experiments designed to determine the quantity and purity of nitrogen enriched air nea required to inert a vented aircraft fuel tank nea generated by a hollow fiber membrane gas separation system was used to inert a laboratory fuel tank with a single vent on top designed to simulate a transport category airplane fuel tank the tank ullage space could be heated as well as cooled and fuel could be heated in the bottom of the fuel tank to provide varying hydrocarbon concentrations within the ullage space several inerting runs were performed with varying nea gas purities and flow rates the data was nondimensionalized in terms of nea purity volume flow rate and fuel tank size to provide one universal inerting curve changing temperatures and hydrocarbon concentrations appear to have little effect on the amount and purity of nea needed to inert the test specimen a model of ullage washing developed by the federal aviation adiministration chief scientific and technical advisor for fuel systems design based on the volume exchange of gases of different concentrations was compared with data obtained from the test article also an exact solution based on uniform and instantaneous mixing was derived and compared with the test data both the model and exact solution showed good agreement in both trend and magnitude with the data obtained during the 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Motor Gasoline: Properties, Laboratory Methods of Testing, and Practical Specifications

1919

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The Treatment of Natural-gas Gasoline to Meet the Doctor Test

1923

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Methods of Testing Natural Gas for Gasoline Content

1916

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Automobile Gasoline

1923

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Automotive Gasoline Performance and Information System

1973

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Storage Stability of Gasoline

1968

Gasoline Marketing

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1917

Natural Gasoline

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Symposium on Current Research on Motor Gasoline which May Affect Future Specifications

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1957

Symposium on Vapor Phase Oxidation of Gasoline

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Motor Gasoline Survey, August, 1931

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Gasoline Losses Due to Incomplete Combustion in Motor Vehicles

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The Motor Gasoline Surveys of 1920 and 1921

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Testing Compressed Natural Gas Fuel Economy with Dynamic Skip Fire Technology

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1926

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1948

National Fuel Economy Testing Act of 1974, Hearing Before the Special Subcommittee on Science, Technology, and Commerce of ..., 93-2, May 17, 1974

Petroleum Products as Related to Automotive Equipment

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