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This guide will provide students, researchers and staff with access to subject and information resources.

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- Open collection: 660.01 - 668
- In the reference section the books will start with the letter N. e.g. N660.01
- Environmental engineering: 628.1 - 628.8

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Please make an appointment via email: lesego.makhalola@up.ac.za

Monday - Friday
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But how?

- analyse **T**opic
- **U**nderstand concepts
- determine **K**eywords
- do the **S**earch
Keywords

• What is the effect of sulphur on the lubricity of diesel fuel?
Discovery services

Chemical Engineering: Books

How to search for a book

- Library orientation brochure

E reference books

- Kirk-Othmer encyclopedia of chemical technology
  Kirk-Othmer Encyclopedia of Chemical Technology presents a wide scope of articles on chemical substances—including their properties, manufacturing, and uses. It also focuses on industrial processes and unit operations in chemical engineering, as well as covering fundamentals and scientific subjects related to the field. Additionally, environmental and health issues concerning chemical technology are also addressed.
- McGraw-Hill's Access Engineering
  McGraw-Hill's Access Engineering is a dynamic source of content providing practicing engineers and students an innovative tool to find the answers they need to solve critical engineering problems. Access Engineering features integrated access to thousands of pages of content from such renowned resources as Perry's Chemical Engineers Handbook.

Catalogue

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- ScienceDirect
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UPSpace

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International thesis and dissertations

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- Sabinet
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diesel fuels
1. **Dual-fuel diesel engines**
   by G. A. Kair
   eBook 2015
   Held by: University of Pretoria Libraries
   This book offers an integrated and balanced discussion of the different types of gaseous fuels that can be used within dual fuel diesel engines. It presents a comprehensive and well-integrated... Read More

2. **Alcoholic fuels**
   by Shelley D. Minter
   Print book 2006
   Held by: University of Pretoria Libraries
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3. **Pounder's marine diesel engines and gas turbines**
   by D. F. Woodward
   eBook 2009
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Chemical Engineering: Articles

Databases

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  Google Scholar allows you to search across a wide range of academic literature. It draws on information from journal publishers, university repositories, and other websites that it has identified as scholarly.

- **Scopus**
  Scopus is the largest abstract and citation database of peer-reviewed literature: scientific journals, books and conference proceedings. Delivering a comprehensive overview of the world’s research output in the fields of science, technology, medicine, social sciences, and arts and humanities, Scopus features smart tools to track, analyze and visualize research.

- **ISI Web of Science**
  Web of Science™ Core Collection provides researchers, administrators, faculty, and students with quick, powerful access to the world’s leading citation databases. Authoritative, multidisciplinary content covers over 12,000 of the highest impact journals worldwide, including Open Access journals and over 150,000 conference proceedings. You’ll find current and retrospective coverage in
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Chemical Engineering: Articles

Databases

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How to search for an article

- Tips for searching for articles
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- Intuitive search and browse functionality
Keywords

• What is the effect of sulphur on the lubricity of diesel fuel?
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AND

Search
sulphur

AND

Search
lubricity
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sulphur AND lubricity AND "biodiesel fuel"
[TEXT SECTION] 4.5.22.1 Biodiesel Fuel

...Test Method for Sulfur in Petroleum Products (Lamp Method) D1298 Test Method for Density, Relative Density (Specific Gravity), or API Gravity of Crude Petroleum and Liquid Petroleum Products by Hydrometer Method D1319 Test Method... More

[TEXT SECTION] 24.4.11.1 Biodiesel Fuel/Lubricity Additives

...Bernie Y. Tao 624 emissions. In addition to improving the lubricating effect of diesel fuel at low additive levels (1%), methyl esters are also effective diesel fuels, and reduce sulfur oxides, particulate emissions, nitrogen... More

[TEXT SECTION] 14.4 Performance Characteristics for Biodiesel
From Biodiesel Science and Technology - From Soil to Oil (2010)

...characteristics for biodiesel Fuel properties important for potential diesel applications include: lubricity, cetane number (CN), density, viscosity, heating value, sulphur, flash point, cloud point, distillation... More
found that successfully controls such corrosion without forming tenacious deposits at the same time. Accordingly, the sodium-plus-potassium level must be limited, but each element is measured separately. Some gas turbine installations incorporate systems for washing oil with water to reduce the sodium-plus-potassium level. In installations where the fuel is moved by sea transport, the sodium-plus-potassium level should be checked prior to use to ensure that the oil has not become contaminated with sea salt. For gas turbines operating below 699°C, the corrosion due to sodium compounds is of minor importance and can be further reduced by silico-base additives. A high-sodium content is beneficial even in these turbines, because it increases the water-solubility of the deposits and thereby increases the ease with which gas turbine storage tanks can be very effective in maintaining the cleanliness of distillate fuels.

Vanadium levels in blended marine fuels are limited in specification ISO 8217 depending on the category of fuel.

**Alternative Fuels for Diesel Engines**

**Biodiesel Fuel**

Biodiesel is a blendstock for use with middle-distillate petroleum fuels. Biodiesel is covered under ASTM D6751, Specification for Biodiesel Fuel Blend Stock (B100) for Middle Distillate Fuels. (Chapter 5 of this manual contains a more detailed discussion of biodiesel.) Biodiesel is comprised of mono-alkyl esters of long chain fatty acids derived from vegetable oils or animal fats, designated
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**Material Property Search**

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Open Material Property Search

**Knovel Data Analytics Beta**

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