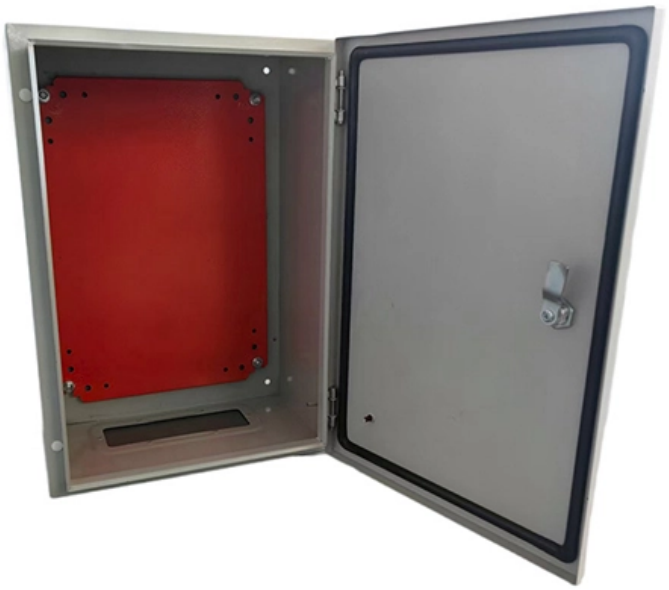
EIT Opto-Routing

Anti-tracking properties of spectrometers used in petroleum and petrochemical industries



Powered by EIT Opto-Routing

Analysis of High Boiling Components in Petroleum Products by LC/MS

In this communication, we demonstrate a simple but efficient LC/MS platform for the analysis of petroleum finished products. The extended mass range of the LC/MS instrument combined with the

NIR spectroscopy in the petrochemical and refinery

«This practice covers a guide for the multivariate calibration of infrared (IR) spectrophotometers and Raman spectrometers used in determining

Petroleomics: Tools, Challenges, and Developments

The detailed molecular characterization of petroleum-related samples by mass spectrometry, often referred to as petroleomics, continues to present significant analytical challenges. As a result,

Appendix

Standard Test Method for Naphthalene Hydrocarbons in Aviation Turbine Fuels by Ultraviolet Spectrophotometry Standard Test Method for Ultraviolet Absorbance and Absorptivity of Petroleum

Fuel Analysis , SPECTRO

Such fuels are used for aviation, automotive, burner, diesel, gas turbine, and marine services. Worldwide, there are many specifications that require very precise fuel

Advancements in nanotechnology applications: Transforming catalysts

NMs-based corrosion inhibitors have long been used in different industries while playing an astronomical role in the oil refinery. Since petroleum refineries contain an extensive network of

How to Analyze Petrochemicals with an NMR Spectrometer

Magritek's Spinsolve Benchtop NMR spectrometer can be used for the characterization of fuels, crude oils, and other petrochemical products. In

Use of Raman Spectroscopy in Analysis of Crude

Oils, Petroleum

Abstract The review deals the use of Raman spectroscopy for analysis of various objects of petroleum chemistry: crude oils, petroleum products, oil-bearing rocks, petrochemical process catalysts, etc.

Analytical Methods And Techniques Applied To Crude Oil And

For example in the petroleum industry analysis, the need to obtain results on-stream and without delay may dictate the use of methods not particularly noted for their sensitivity.

Near Infrared Spectroscopy in Petroleum Refinery and Chemical Industry

By reading this book, audiences can understand the applications of near infrared

spectroscopy analysis technology, implementation steps and results in the petroleum refining and chemical industry.

GC-MS: A Powerful Technique for Hydrocarbon Analysis

Gaschromatography-massspectrometry(GC-MS)isapowerfultechniqueforseparating and detecting molecules. It is a widely-used method

Hydrocarbon Processing Industry (Petrochemical)

The Hydrocarbon Processing Industry (HPI) encompasses petroleum refining, gas processing, petrochemicals and chemicals, and is a foundational field for many

NMR , Petrochemical Analysis

Putting NMR at the core of petrochemical analysis From oil prospecting to the quality control of final products, there are a wide range of areas in the petrochemical

Oil and Gas Industry FT-IR and Raman Solutions

For the oil and gas industry, FTIR and Raman spectroscopy are mighty chemical analysis tools. They offer non-destructive identification of molecular structures,

The Use of WDXRF in the Petroleum and Oil Industry

Discover effective WDXRF techniques for optimizing petroleum analysis, featuring insights from expert Pol De Pape. Enhance your understanding of fuels,

Lube Oil Analysis , SPECTRO

The analytical techniques of choice for this lube oil analysis application are XRF and ICP-OES technology and SPECTRO offers complete product lines for both

Applications of Mass Spectrometry in the Petrochemical Industry

One of the newest developments, particularly important for the petrochemical industry, is ultrahigh-resolution instrumentation, which has been made commercially available since 1974.

Crude Oil Analysis , SPECTRO

SPECTRO offers advanced XRF and ICP-OES instruments for precise crude oil and trace element analysis, ensuring accurate results in petrochemical applications.

Petroleum Analysis , SPECTRO

For the requirements during manufacture and use of fuels, biofuels and bunker oil, SPECTRO provides special solutions that enable optimization of production

NIRS in the petrochemical and refinery industry: The

Want to learn more? Check out our blog post on this topic. Introduction to the petrochemical and refining industry Oil and gas for fuel are

Identification of petroleum profiles by infrared spectroscopy and

The petroleum industry has the interest to know the physicochemical properties of the crude oil before its exploration in order to estimate its costs with processing, transportation, storage

Petroleum Analysis

3 Ionization and Appearance Energies The early scientists who were involved in the analysis of small hydrocarbons and later petroleum by MS contributed more than the development of an analytical

Application of high-performance liquid chromatography in petroleum

Chromatography-based test methods significantly facilitate petroleum product

characterizationthroughvariousapproaches.High-performanceliquidchromatography is a versatile,

NIR spectroscopy in the petrochemical and refinery industry: The

«This practice covers a guide for the multivariate calibration of infrared (IR) spectrophotometers and Raman spectrometers used in determining the physical, chemical, and

Navigating the green shift with innovative techniques in petrochemical

The final selection of the most suitable emission reduction technique in the petrochemical industry relies on the current operational context, historical emission patterns, and the precise

Characterization of petroleum-based products by infrared

We focus on the methods proposed for the determination of a wide range of characteristics in petroleum-based products. We discuss methods based on the general applications of vibrational

Why Do We Need Effective Testing Methods in the

One GC technique that was specifically designed for the petrochemical industry back in the 1990's and is now widely used in the sector is two

Mass Spectrometry in Petroleum Chemistry (Petroleomics) (Review)

Abstract The review discusses the achievements of the last 5 years in the field of using mass spectrometry for the analysis of crude oils and some oil refining products. The presented

Contact Us

For datasheets, pricing, or custom optical networking solutions, please visit: https://www.entrenamientointeligente.es