Transfer Spectrometer

A schematic of an interferometer used in a Fourier Transfer Infrared Spectrometer (FTIR). Infrared radiation is typically generated by passing electricity through a conducting ceramic bar (glow bar).

It performs this function by measuring samples relative to standards calibrated on the reference instruments. The instrument measures non-fluorescent samples at room temperature. The ...

The Proton Transfer Reaction Mass Spectrometer (PTR-MS) measures gas-phase compounds in ambient air and headspace samples before using chemical ionization to produce positively charged ...

With the advent of cheap microcomputers it became possible to have a computer dedicated to controlling the spectrometer, collecting the data, doing the Fourier transform and presenting the ...

This bundle contains the data associated with the Commercial Lunar Payload System"s Peregrine Mission 1 Linear Energy Transfer Spectrometer.

Easily implement laboratory-based FT-NIR performance in a ready-for-plant package using the Thermo Scientific(TM) Antaris(TM) II FT-NIR Analyzer. With industry-leading method transfer performance, the ...

Here, a general overview of its operation is presented. The figure below shows the main components of an FT spectrometer and illustrates the overall process in obtaining the spectrum.

Directly measure primary GCR and secondary radiation via Linear Energy Transfer (LET). The primary mission objective is to obtain radiation data on the lunar surface. Secondary mission objectives are ...

This instrument was created at NASA Ames Research Center. In total, it has three specific instruments: the near-infrared spectrometer, Ames imaging module, and longwave ...

JSC"s Linear Energy Transfer Spectrometer (LETS) will make the first radiation measurements on the Lunar Surface, addressing important Lunar Human Exploration Strategic Knowledge Gaps (SKGs) ...

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