

ve detector is used. Using this effect, we experimentally demonstrate a simple on-chip spectrometer capable of extracting two-polarization spectra over a wide 1480-1630 nm bandwidth with a greater ...

Calculates the restrictor dimensions (internal diameter and length) required to obtain a desired split ratio from the column to the multiple detectors. A set of eight typical configurations have been pre ...

Beam splitters set the efficiency, accuracy, and usable spectral range of an infrared spectrometer. Their design, chosen materials, and calibration have a direct impact on how well the ...

We developed two different spectrometer setups that use non-invasive, radiation hard and highly transmissive nanostructured diffraction gratings made of diamond.

We argue that this spectrometer is merely a one example of a more general class of polarization separating techniques - "interferometric modal splitting" - which applies to a wide variety of integrated ...

By contrast, split beam optics compensates and stabilizes any signal fluctuations to increase accuracy and reliability even over prolonged usage such as in time course and kinetic measurements. The ...

Split beam spectrophotometers are known for their superior accuracy compared to single beam spectrophotometers. The simultaneous measurement of the sample and reference in split beam ...

Using this effect, we experimentally demonstrate a simple on-chip spectrometer capable of extracting two-polarization spectra over a wide 1480-1630 nm bandwidth with a greater than 20 dB ...

Unlike single beam spectrophotometers, which measure the light intensity before and after passing through the sample sequentially, split beam spectrophotometers use a beam splitter to divide the ...

In this paper, we propose and demonstrate a ground-breaking spectrometer design beyond the resolution-bandwidth limit. We tailor the dispersion of mode splitting in a photonic ...

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