

By combining a deep residual network, graded bandgap perovskite film and commercial CMOS sensor chip, a miniature spectrometer is demonstrated, achieving an accurate spectrum reconstruction ...

1. of, consisting of, or using lines: linear design. 2. pertaining to or represented by lines: linear dimensions. 3. extended or arranged in a line: a linear series. 4. involving measurement in one ...

This paper presents the design, fabrication, and characterization of a middle-infrared (MIR) linear variable optical filter (LVOF) and thermopile detectors that will be used in a miniaturized...

In the framework of an ESA Study, a team of industries and institutes led by SELEX-Galileo explored the design principles and manufacturing techniques, realizing and characterizing LVOF samples based ...

This paper reports on a IC-Compatible fabrication process for Linear Variable Optical Filters (LVOF). Very small taper angles, ranging from 0.001°; to 0.1°;, can be fabricated flexibly in a ...

Something linear is like a line. The adjective usually refers to something that follows an expected order or sequence -- like railroad tracks or even the progression of a disease.

This paper reports on an IC-Compatible process for the fabrication of Linear Variable Optical Filter (LVOF). The LVOF is integrated with a detector array to result in a micro-spectrometer.

In this article we demonstrate the design of linearly variable optical filters (LVOF) utilized in the design of a portable (mini) spectrometer. The spatially varied spectral response of graded optical filters allows ...

Discover what is a linear function, how it works, and why it appears in real life. Learn how to recognize linear relationships in your work with clear examples.

This paper presents the design, fabrication and characterization of a linear variable optical filter (LVOF) that operates in the infrared (IR) spectral range. An LVOF-based microspectrometer is a ...

An IC-compatible linear variable optical filter (LVOF) for application in the UV spectral range between 310 and 400 nm has been fabricated using resist reflow and an optimized dry-etching. The LVOF is ...

An essential question in linear algebra is testing whether a linear map is an isomorphism or not, and, if it is not an isomorphism, finding its range (or image) and the set of elements that are mapped to the ...

This paper presents the design, fabrication, and characterization of a middle-infrared (MIR) linear variable

optical filter (LVOF) and thermopile detectors ...

Wafer-Scale Fabrication of Linear Variable Filter-based Reconstructive Micro-Spectrometer Published in: 2023 Conference on Lasers and Electro-Optics (CLEO)

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