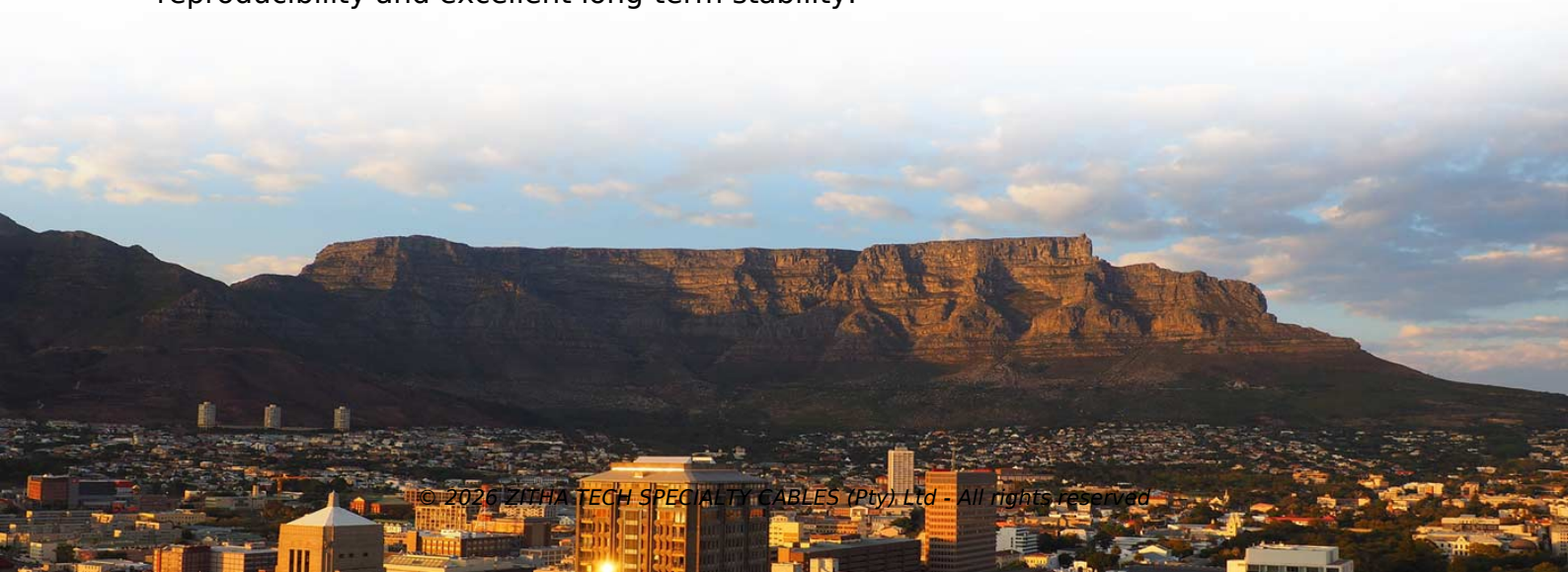
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Principle of Vacuum Direct-Reading Spectrometer



Overview

The vacuum direct-reading spectrometer adopts the concept of "vacuum environment construction": it evacuates the excitation chamber to a low vacuum state (typical vacuum level of 10–100 Pa) using a vacuum pump, directly eliminating the air medium. During the analysis of the instrument, an electric spark is generated between the electrode on the spark stand and the previously prepared metal sample under the action of high pressure. 999%) to completely replace air (interfering gases such as oxygen and nitrogen). As an inert gas, argon serves two purposes: first, it prevents. The Direct Reading Spectrometer (DRS) represents a cornerstone class of analytical instrumentation within the broader domain of optical emission spectroscopy (OES), specifically engineered for rapid, quantitative elemental analysis of solid metallic and conductive non-metallic samples. Divided into 4 modules according to function: 1. The direct reading spectrometer offers a rapid, on-site solution for. Spectrometer optical system using vacuum light room, integral and control circuit in a vacuum chamber of light, can not be affected by changes in the external environment, the determination of various elements of accurate, reproducibility and excellent long-term stability.



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Article Content

Chapter1Spectrometeroverview Ch

Chapter 2 Spectrometer composition The TY-9000 direct reading spectrometer consists of a light source, a spark stand, an optical system, a pneumatic circuit module, and a vacuum system.

Direct reading spectrochemical analysis with a rapid-scanning ...

The optical, mechanical, and electronic features of a rapid-scanning spectrometer for direct reading spectrographic analysis are described. In this spectrometer the spectra are rapidly and repeatedly

Vacuum Direct Reading Spectrometer

Spectrometer optical system using vacuum light room, integral and control circuit in a vacuum chamber of light, can not be affected by changes in the external

Full Spectrum Direct Reading Spectrometer

Full Spectrum Direct Reading Spectrometer Optical system l full spectrum optical system of Palmer type - runge structure l Maximum wavelength range: 130 ~

The Basics of UV-Vis Spectroscopy

Spectroscopy allows the study of how matter interacts with or emits electromagnetic radiation. There are different types of spectroscopy, depending on the wavelength range that is being measured. UV-Vis

Related Video Reference

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