

Slag Composition Spectrometer



Overview

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Key Takeaways

Slag components are analyzed using an X-ray fluorescence spectrometer, which is important for reusing the slag or managing the conditions of slag formation. Depending on the equipment type and configuration, measurement times range from minutes down. Slag is a complex silicate mixture of aluminum, calcium and magnesium with small amounts of manganese, iron oxides and calcium sulfide. This mixture forms during different stages of iron and steel processing including in the blast furnace, the converter, the basic oxygen furnace (BAF) and the. lution analysis of trace elements, but also chemical structure of steel slag is required. Rapid slag analysis plays a crucial role in the steelmaking process. In order to avoid the time-consuming step of sample preparation, the liquid slag material can be filled in special probes. The system includes a rotating/oscillating sample holder to achieve averaging over a sufficiently large sample area in order to get a representative measurement of the.



Article Content

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To address this challenge, we present an in situ, high-temperature analytical approach that integrates Raman spectroscopy with a custom-designed fiber-optic probe for real-time slag

Steelmaking slag measurement with LIBS

The sample itself emits characteristic "fingerprint" radiation. The signals from the samples are transferred by fibre optic cable to the spectrometer,

Related Video Reference

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