

N. Ponomarev

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Laser Photoacoustic Method for Disc-Ring Gas Analysis

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Abstract. A laser photoacoustic gas analysis method was used to study the atomic CO, and CO₂ in the ring and their conversion to CO₂ in the disc of a disc-ring system. The method is based on the absorption of a pulsed laser beam in samples evacuated from the disc ring cavities with atmospheric CO₂ in the disc cavity; apparently, a significant portion of the CO₂ is converted to CO in the disc cavity. The CO concentration in the disc cavity is measured by high CO₂ concentration, while those with low CO₂ are measured with small CO₂ concentration. The CO₂ conversion rate is determined from the ratio of the CO₂ concentration in the disc cavity to that in the ring cavity. The CO₂ conversion rate is proportional to the rate of conversion of CO₂ to CO in the disc cavity.

Keywords: CO₂, atomic CO, laser photoacoustic method

1. Introduction

Current point is interested in measuring the concentration of CO₂ in the atmosphere. The methods of CO₂ measurement have been developed to measure the CO₂ content in the Earth's atmosphere [1].

The CO₂ concentration in the atmosphere of most countries is measured by the method of infrared absorption [2].

CO₂ concentration in the atmosphere of some countries are measured in making the effort of the World Meteorological Organization to measure the CO₂ concentration in the northern and southern hemispheres [3].

The CO₂ concentration in the atmosphere of the Earth is measured by the method of infrared absorption [4]. The northern and southern hemispheres have for the last 10 years been measured by the method of infrared absorption [5]. The CO₂ concentration in the atmosphere of the Earth is measured by the method of infrared absorption [6].

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and one. This way established that the large amount of residual CO₂ is emitted in a typical case of atmospheric CO₂ conversion to CO. The CO₂ conversion rate is defined as the ratio of the CO₂ amount removed before it is defined in the atmosphere [15].

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He occupied an office within Central Committee headquarters until the , which he is said to have supported.

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