

Hot gas flow measurements by cross-correlation of infra-red radiation.

- - Infrared gas radiation from a homogeneously turbulent medium



Description: -

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DissertationsHot gas flow measurements by cross-correlation of infra-red radiation.

Notes: M.Sc dissertation. Typescript.

This edition was published in 1979



Filesize: 8.91 MB

Tags: #SciELO

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Some facilities prefer these non-laser light sources because of safety issues.

Infrared gas radiation from a homogeneously turbulent medium

Such technologies include turbines inserted in the gas stream, thermal probes measuring the cooling effect, and Pitot tubes, measuring the pressure exerted by the flowing gas and venturi restrictions creating a measurable pressure drop. The emitter is suitably a hot wire emitter.

Induced Infrared Thermography: Flow visualizations under the extreme conditions of an open volumetric receiver of a solar tower

Unlike PIV, the PTV results in sparse velocity information located in random locations.

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The PIV sensor, however, is quite limited temporally, due to the framing rate of the cameras, and pulsing frequency of the light sources used. PIV image acquisition should be completed using short light pulses to prevent streaking.

EP1388000A1

Digital windowing and filtering techniques can be used in PIV systems to improve the results. Apparatus according to any of claims 5 to 10, wherein the sensors use narrow band infra red radiation.

Gas velocity measurement by infrared radiation absorption

In many cases, they also need to be calibrated for angular response. Heavy-quartz coating: For applications in water. .

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