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In particular, the design and the performance of a Miniature laser Doppler anemometer, a miniature particle sizing sensor, and an optical shear stress sensor based on micro-optical ...

(PDF) MINIATURE AND MICRO-DOPPLER SENSORS

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(PDF) MINIATURE AND MICRO-DOPPLER SENSORS | Darius Wilson

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Recent advancement has resulted in the miniaturization of laser Doppler sensors for the measurement of flow velocity

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and wall shear stress. In particular, the design and the performance of a Miniature laser Doppler anemometer, a miniature particle sizing sensor, and an optical shear stress sensor based on micro-optical electromechanical systems

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In particular, the design and the performance of a Miniature laser Doppler anemometer, a miniature particle sizing sensor, and an optical shear stress sensor based on micro-optical electromechanical systems (MOEMS) is reviewed.

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miniature Laser Doppler Anemometer (LDA) and a micro optical shear stress sensor is described. Miniaturization of these sensors has been achieved with the use of integrated optics and micro fabrication techniques. This paper describes the fabrication of the two sensors and presents an experiment for the evaluation of the sensors. The results show

Miniature and MOEMS Flow Sensors

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In recent years, the usages of consumer-grade mini-Unmanned Aerial Vehicles (mini-UAV, also called drones) are drastically increased. To detect and monitor the drone in a highly urbanised environment, a distributed radar system consisting of a group of low-cost small radar sensors is under study. In this paper, we present a micro-Doppler based automatic drone detection/classification system ...

Micro-Doppler Based Mini-UAV Detection with Low-Cost ...

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We developed a miniature and low-cost radar (radio detection and ranging) sensor for mobile devices. A radar differs from other mobile sensors - it provides diverse capabilities such as detection, tracking, ranging, and imaging. As a proof-of-concept for a radar sensor, we prototyped two X-band radars:

Miniature Radar for Mobile Devices - IEEE HPEC

The 20 MHz Microvascular Doppler System is ideal for intraoperative use in neurosurgical procedures. Combining a miniature probe tip with a high operating frequency, the system emits a tightly focused signal with a shallow depth of signal penetration, imparting a level of precision essential for the neurosurgeon.

20 MHz Microvascular Doppler System | VTI-Online

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The micro UUV is equipped with depth and temperature measuring sensors. It is also fitted with ultra-compact 600kHz Pathfinder doppler velocity log (DVL) supplied by Teledyne RD Instruments (TRDI). Navigation and communications

Riptide Micro Unmanned Underwater Vehicle, United States

...

Construction of a micro-Doppler demonstrator. The demonstrator DroMiAn (Drone detection with micro-Doppler analysis), which, in addition to the normal radar hardware for object detection, also has an additional channel for micro-Doppler measurement, was constructed to research the micro-Doppler signatures.

Drone detection with micro-doppler analysis - Fraunhofer FHR

Recent progress in the development of a miniature Laser Doppler Anemometer (LDA) and a micro optical shear stress sensor is described.

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Dominique Fourquette's research works

A miniature light detection and ranging (LIDAR) velocimetry sensor has been developed to analyze high-velocity and boundary layer flows in real-world conditions. Using Rayleigh scattering, as opposed to the more common particle scattering, the patent-pending sensors provide multiple flow parameters without the need for particle-seeded flows. The compact fiber-optic sensor design can be ...

Micro-LIDAR for Flow Velocimetry - Tech Briefs

Miniature and Micro-Doppler Sensors [pdf] (2000) 10th International Symposium on Applications of Laser Techniques to Fluid Mechanics
Diffractive optic fluid shear stress sensor [pdf] An integrated MEMS based system for multiscale surface measurements [pdf]

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Publications | Measurement Science Enterprise, INC

In the Rain Drop Sensor Arduino Code, we defined that pins 5, and A0 are buzzer and rainfall. By doing this, we can change the pins in the defined part of the function, and the remaining part of the code will be untouched. This will make the programmer in editing the pins easily. In the void loop, the analogRead command reads the value from the ...

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