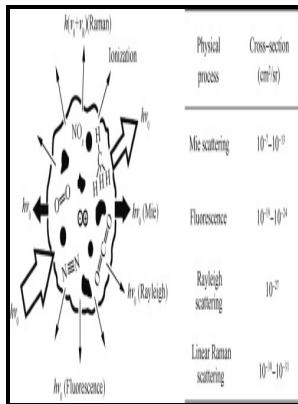


# Development and application of a high performance digital particle image velocimetry system.

University of Manchester - Particle Image Velocimetry



Description: -

-development and application of a high performance digital particle image velocimetry system

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Notes: Thesis (Ph.D.), University of Manchester, School of Engineering.

This edition was published in 1996



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In addition to the fixed camera footage, a DJI Phantom 4 Pro UAS was flown at an elevation of approximately 20 m above the water surface during the rising limb of the hydrograph and at the peak river stage. The GCP data can also be exported as a.

## The Application of Particle Image Velocimetry (PIV) in a Short

The smaller the value given as the extraction rate, the greater the number of trajectories that will be produced, and any areas of unsteady flow elements will be well characterised. The phase-averaged velocity vector field is characterized by numerous critical local flow patterns and clearly shows the large reverse flow in the center.

## Development of wavelet image compression technique to particle image velocimetry

Each time a video begins recording on the DJI Phantom 4 Pro, the front LEDs blink and this was detected using a phototransistor. Measurement of Flow-Induced Vibration of Hard Disk Drives.

## Validation of CFD and Thermal Hydraulics Codes by Digital Particle Image Velocimetry

Example operations include histogram equalisation, contrast stretching, application of a high-pass filter, and binarisation. An initial solution is found for the lowest resolution level, and this is then propagated through to the highest resolution.

## Related Books

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