

# Fiber-optic-based Laser Vapor Screen Flow Visualization System For Aerodynamic Research In Larger Scale Subsonic And Transonic Wind Tunnels (SuDoc NAS 1.15:4514) By Gary E. Erickson

By Gary E. Erickson

## 28th Aerospace Sciences Meeting : Impact of -

A laser vapor screen flow visualization system was used to measure local values of the Reynolds number based on the wing mean aerodynamic chord, beam was directed into a series of optical components,

<http://arc.aiaa.org/doi/pdf/10.2514/6.1990-386>

## Fiber optic-based laser vapor screen flow -

Title: Fiber optic-based laser vapor screen flow visualization systems for aerodynamic research in larger-scale subsonic and transonic wind tunnels

<http://adsabs.harvard.edu/abs/1992STIA...9320298E>

## 7 X 10-Foot High Speed Tunnel - NasaCRgis - NASA -

May 26, 2015 facilitated by the installation of a fiber-optic-based laser vapor screen and promote condensation of the water vapor in the flow field

[http://crgis.ndc.nasa.gov/historic/7\\_X\\_10-Foot\\_High\\_Speed\\_Tunnel](http://crgis.ndc.nasa.gov/historic/7_X_10-Foot_High_Speed_Tunnel)

## Flow visualization and application of -

Flow visualization and application of Particle-Image the vapour-screen method and oil flow Fiber-optic-based laser vapor screen flow

[http://link.springer.com/chapter/10.1007%2F978-3-322-86573-1\\_27](http://link.springer.com/chapter/10.1007%2F978-3-322-86573-1_27)

## MEASUREMENT OF HYPERSONIC FLOWS F. Kevin Owen -

Turbulence levels based on local mean flow values exceed 30 made to the sending optics which enabled laser light liquefied vapor in the cross flow

[http://link.springer.com/content/pdf/10.1007%2F978-94-011-1828-6\\_30.pdf](http://link.springer.com/content/pdf/10.1007%2F978-94-011-1828-6_30.pdf)

## Leak detection - Wikipedia, the free encyclopedia -

vapor sensors, acoustic microphones or fiber-optic cables) 3 Internally based LDS. 3.1 Pressure/Flow monitoring; Fibre-optic leak detection

[http://en.wikipedia.org/wiki/Leak\\_Detection](http://en.wikipedia.org/wiki/Leak_Detection)

## N.G.(1983): An Experimental Investigation of the -

An Experimental Investigation of the Vortex Flow Fiber OpticBased Laser Vapor Screen Flow Visualization Fiber optics are used to deliver the laser beam

<http://citeseerx.ist.psu.edu/showciting?cid=1584104>

## Dielectric barrier discharge micro-plasma emission -

whereas the quartz plates are employed as observation window at which optical fiber The acetone vapor is introduced by a helium carrier flow Laser-based

<http://www.sciencedirect.com/science/article/pii/S0039914015301995>

### **Assessing the Capability of Doppler Global -**

Doppler Global Velocimetry To Measure Vortical Flow direction based on the orientation of the laser propagation developed for vapor screen flow

<http://www.cs.odu.edu/~mln/ltrs-pdfs/NASA-94-jae-jfm.pdf>

### **CiteSeerX Citation Query Fiber Opt icBased Laser -**

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<http://citeseerx.ist.psu.edu/showciting?cid=3382451>

### **What is optical fiber ( fiber optic)? - Definition -**

Optical fiber (or "fiber optic") refers to the medium and the technology associated with the transmission of information as light pulses along a glass or plastic

<http://searchtelecom.techtarget.com/definition/optical-fiber>

### **Optical filter legal definition of Optical filter -**

purification, purifier, refinery, screen, sieve, sifter The new film can also be used with optical filters based on a glass Optical fiber laser;

<http://legal-dictionary.thefreedictionary.com/Optical+filter>

### **AEDC Commander announces 2014 Fellows -**

non-intrusive optical diagnostics for the laser vapor screen flow visualization hardware-in-the-loop testing for the Ground-based Missile

<http://www.arnold.af.mil/news/story.asp?id=123414972>

### **Optical filter - definition of Optical filter by -**

dust filtered through the screen. 10. (intr) to flow slowly; Optimal design of optical filter for white light interferometry based by Optical fiber laser;

<http://www.thefreedictionary.com/Optical+filter>

### **Unified Application Vapor Screen Flow -**

Download legal documents Laser vapor screen (LVS) flow technique that is based on the Optical access to the test section

<http://www.docstoc.com/docs/1084041/Unified-Application-Vapor-Screen-Flow-Visualization-and-Pressure-Sensitive-Paint-Measurement-Techniques>

### **NASA Technical Reports Server (NTRS) - Fiber- -**

Abstract: Laser vapor screen (LVS) flow visualization systems that are fiber-optic based were developed and installed for aerodynamic research in the Langley 8-Foot

<http://ntrs.nasa.gov/search.jsp?R=19940022203>

### **Fiber- optic- based laser vapor screen flow -**

Fiber-optic-based laser vapor screen flow visualization ssystem for aerodynamic research in larger scale subsonic and transonic wind tunnels (SuDoc NAS 1.15:4514

<http://www.amazon.com/Fiber-optic-based-visualization-aerodynamic-research-transonic/dp/B00010KEOQ>

### **Advertisements - Harding University Digital -**

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<http://dch360.com/file/50531f2>

### **Prostate laser surgery - Mayo Clinic -**

Prostate laser surgery is used to delivers energy that is used to shrink or to remove the excess tissue that is blocking the urethra and preventing urine flow.

<http://www.mayoclinic.org/tests-procedures/prostate-laser-surgery/basics/definition/PRC-20013285>

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<http://scattered17.pedagogie-durable.com/?breq=21>

### **Extron XTP Receivers - XTP SFR HD 4K -**

The Extron XTP SFR HD 4K is an XTP scaling receiver for extending video, audio, bidirectional control, and Ethernet over one fiber optic cable.

<http://www.extron.com/product/product.aspx?id=xtpsfrhd4k&search=XTP%20SFR%20HD%204K%20SM>

### **H.: Review of the NASA High-Alpha Technology -**

Review of the NASA High-Alpha Technology Program. Fiber OpticBased Laser Vapor Screen Flow Visuali Fiber optics are used to deliver the laser beam

<http://citeseerx.ist.psu.edu/showciting?cid=3277059>

### **Optical fiber - Wikipedia, the free encyclopedia -**

of fiber that is commonly used in fiber optic sensors of an optical fiber is based on fiber's optical properties. In outside vapor

[http://en.wikipedia.org/wiki/Optical\\_fiber](http://en.wikipedia.org/wiki/Optical_fiber)

### **Light-emitting diode - Wikipedia, the free -**

high-efficiency LEDs for optical fiber telecommunications by Charge-carriers electrons and holes flow into the In an organic light-emitting diode

[https://en.m.wikipedia.org/wiki/Light-emitting\\_diode](https://en.m.wikipedia.org/wiki/Light-emitting_diode)

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SICK is one of the world s leading manufacturers of sensors, Gas Flow Measuring Devices. Dust Measuring Devices. Analyzer Systems. Liquid Analyzers. Tunnel Sensors.

<http://www.sick.com/us/en-us/home/Pages/Homepage1.aspx>

### **Fiber - Optic - Based Laser Vapor Screen Flow -**

Fiber - Optic - Based Laser Vapor Screen Flow Visualization System for Aerodynamic Research in Larger Scale Subsonic and Transonic Wind Tunnels [G. E. & Inenaga, A. S

<http://www.amazon.com/Fiber-Visualization-Aerodynamic-Research-Transonic/dp/B00667X7ZG>

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