

# **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**

## **Laser Package Having Multiple Emitters Configured -**

Jul 29, 2015 The conventional polar GaN based laser diodes have Typical distances of the optical fiber from the laser diode facet A flow of a gallium

<http://www.freshpatents.com/-dt20150730ptan20150211724.php>

## **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)

## **28th Aerospace Sciences Meeting : Impact of -**

A laser vapor screen flow ical 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>

## **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>

## **ICO20: Lasers and Laser Technologies | (2005) | -**

Angle tuned mid-infrared optical parametric oscillator based on doped double-clad silica fiber laser vapor concentration measurement in singlet

[http://spie.org/Publications/Proceedings/Volume/6028?&end\\_year=2005](http://spie.org/Publications/Proceedings/Volume/6028?&end_year=2005)

## **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>

## **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%20S>

## **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 (SuDoc NAS 1.15:4514

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

### **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>

### **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)

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

### **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)

### **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>

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### **CiteSeerX Fiber Opt icBased Laser Vapor Screen -**

{Fiber Opt icBased Laser Vapor Screen Flow Visualization Systems f or Aerodynamics Research i n Larger-Scale} Understar\_ding Fiber Optics - TP-3111

<http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.111.2034>

### **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>

### **Mercury Vapor Light Source.pdf Pdf download ~ -**

Mercury vapor light source.pdf, instruction sheet for the pasco. model os-9286a. 012-02262h. phone (916) 786-3800 fax (916) 786-8905 email:

<http://dch360.com/file/4f9433c>

### **SICKUSA.COM - SICK Group | Sensor Intelligence -**

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 -**

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>

### **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>

### **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>

### **Subsonic Through Supersonic Speeds - Home (AIAA) -**

subsonic through supersonic speeds in the NASA-Ames The laser head and optical compo- The laser vapor screen flow visualizations were obtained with the

<http://arc.aiaa.org/doi/pdf/10.2514/6.1990-2814>

### **Hecht, Jeff: Understar\_ding Fiber Optics (1991) -**

Hecht, Jeff: Understar\_ding Fiber Optics. Documents; Authors; Tables; Log Fiber Opt icBased Laser Vapor Screen Flow Visua li zation Systems f or Aerodynamics

<http://citeseerx.ist.psu.edu/showciting?cid=5679962>

### **B.: Visualization and Flow Surveys of the Leading -**

Visualization and Flow Surveys of Fiber Opt icBased Laser Vapor Screen Flow Visua li Fiber optics are used to deliver the laser beam through

<http://citeseerx.ist.psu.edu/showciting?cid=4630050>

### **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)

### **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>

### **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)

### **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>

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

Fiber Opt icBased Laser Vapor Screen Flow Visua li zation Systems f Fiber Opt icBased Laser Vapor Screen Flow Visua li zation Systems f or Aerodynamics

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

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

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

Review of the NASA High-Alpha Technology Program. Fiber Opt icBased Laser Vapor Screen Flow Visua li Fiber optics are used to deliver the laser beam

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

### **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)

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

An Experimental Investigation of the Vortex Flow Fiber Opt icBased Laser Vapor Screen Flow Visua li Fiber optics are used to deliver the laser beam

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

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